

LIFE

HOW POLIO VACCINE WAS FOUND,
A GREAT MEDICAL DETECTIVE STORY



HOW DISNEY MAKES
AN UNDERSEA MOVIE
JULES VERNE CHARACTERS

20 CENTS

FEBRUARY 22, 1954



**ANY MOMENT NOW
... SHE'LL WANT**

Community

Any moment now . . . her pretty little head will be spinning with warm *homesome* thoughts. Candlelight, firelight, Community! The boy won't quite know how he got there—but he'll be helping her pick *their* pattern, for keeps. And if the jeweler smiles slightly as he tells them about Community's pure silver "Overlay" (for long,

long wear) and the serrated edge on every knife (for easy cutting), it's a kindly smile. He knows how many happy homes have been launched with their full quota of Community. He knows a dinner service for 8 in a most impressive anti-tarnish chest won't break the boy's budget at \$59.75.

Note to Mother: If the youngsters are taken care of, perhaps it's your moment, too, to choose an extra set of gleaming Community.* Five famous patterns at your jeweler's—and there's *one* you'll love, that's sure!



*TRADEMARKS OF ONEIDA LTD., ONEIDA, N. Y. COPYRIGHT 1962, ONEIDA LTD.



ARTHUR GODFREY SHOWS YOU HOW HE MAKES HIS HAIR BEHAVE. BE SURE TO HEAR HIS NEW "ARTHUR GODFREY DIGEST" ON CBS RADIO NETWORK, FRIDAYS, 8:30 PM, EST.

"Here's the new greaseless way to keep your hair neat all day,"

says Arthur Godfrey

Vitalis Hair Tonic with V-7 makes even dry, unruly hair easy to manage

Even Mr. G.'s tousled cowlicks stay put after he uses new Vitalis Hair Tonic. "Why, the stuff works for me even after a shampoo," he says. "And that means it'll work for anybody."

• **Greaseless grooming discovery—V-7**

The reason new Vitalis works so well is V-7, the new *greaseless* grooming ingredient. It makes your hair easy to manage, yet never gives you an overslick, plastered-down look. And new Vitalis

Hair Tonic prevents dryness—actually maintains hair's natural moisture balance better than any leading oil or cream tonic.

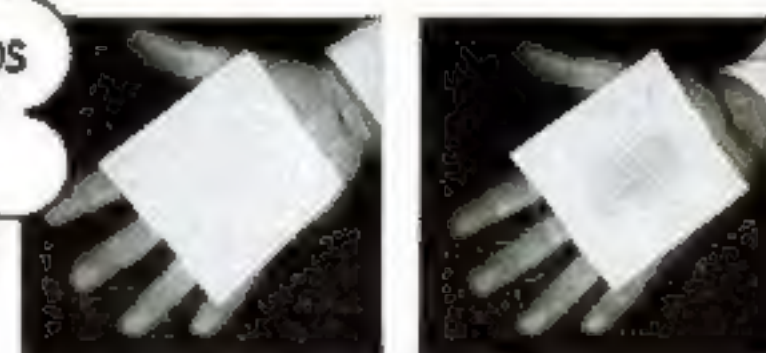
Kills dandruff germs—stimulates circulation

Vitalis kills on contact the germs many doctors associate with infectious dandruff. It stimulates scalp circulation, too, thus helping maintain the health of your hair and scalp.

Try a bottle of new Vitalis with V-7.

Your barber is an expert on hair care. Ask him for a professional application of new Vitalis with V-7.

THESE
"TISSUE-TEST" PHOTOS
SHOW HOW VITALIS
OUTDATES
MESSY OILS



NEW VITALIS

MESSY OILS

In an independent testing laboratory, Vitalis and leading cream and oil tonics were applied in the normal way. Hair was combed and then wiped with cleansing tissue. Unretouched photographs above show the difference in results.

New VITALIS® Hair Tonic with V-7

PRODUCT OF BRISTOL-MYERS

WHAT YOU CAN LEARN FROM THE AIRLINES ABOUT CHAMPION SPARK PLUGS FOR YOUR CAR!



THESE AIRLINES FLY CHAMPIONS!

Allegheny Airlines
American Airlines
Brant International Airways, Inc.
California Central Airlines
Capital Airlines
Central Airlines
Colonial Airlines
Continental Air Lines
Delta-C & S Air Lines, Inc.
Eastern Air Lines
Flying Tiger Line
Frontier Airlines
Maritime Central Airways
National Airlines
North Central Airlines
Northeast Airlines, Inc.
Pacific Northern Airlines
Pan American-Grace Airways, Inc.
Pan American World Airways, Inc.
Piedmont Airlines
Pioneer Air Lines
Slick Airways
Southern Airways
Southwest Airways
Trans-Canada Airlines
Trans-Texas Airways
Trans-World Airlines, Inc.
United Air Lines
West Coast Airlines
Western Air Lines
Iberia
Sabena
Swireair
Air France

Iranian Airways
Air Ceylon Limited
Israel Airlines, Ltd.
KLM Royal Dutch Airlines
Compania de Aviacion "Foucault" S.A.
British Commonwealth Pacific
Airlines, Ltd.
Brazilian South-American &
Far East Airtransport
Scandinavian Airlines System
Servicos Aereos Cruzeiro do Sul, Ltda.
Linea Aeropostal Venezolana
Canadian Pacific Airlines, Ltd.
Caribbean-Atlantic Airlines, Inc.
Linea Aerea Italiana S.P.A.
Lloyd Aereo Boliviano S.A.
Aerovias Guest, S.A.
National Greek Airlines
Orient Airways Ltd.
Trans-Australia Airlines
Turkish State Airlines
Aerolineas Argentinas
Air-India International, Ltd.
Air-India, Ltd.
Philippine Airlines
Hawaitian Airlines Limited
Aerovias de Mexico, S.A.
Fazair de Brasil, S.A.
Airways (India) Ltd.
CAT Incorporated
Aer Lingus
Aero O/Y Air Services of India, Ltd.
Cathay Pacific Airways, Ltd.
South African Airways
Ethiopian Airlines, Inc.
Compagnie Air Algerie
Garuda Indonesian Airways N.V.
Transportes Aereos Mexicanos, S.A.
Union Aeronautique de Transport
Flugfélag Islands, H.F. (Iceland
Airways Ltd.)
Air Tahiti
Gentles Empire Airways, Ltd.
Aerovias Nacionales de Colombia
Aerovias Venezolanas, S.A.
Compania Cubana de Aviacion, S.A.
Lineas Aereas Unidas, S.A.
Serv. Aereos de Chiapas, S.A.
Transp. Aereos de Yajalon, S.A.
Companhia Ihou de Transportes Aereos
Empresa de Transportes
Aerovias Brasil
Loide Aereo Nacional S/A
Real S/A-Transportes Aereos
Transportes Aereos Nacionais Ltda.
Viação Aerea Sao Paulo, S/A
Societe des Transports Aeriens de
L'Extreme Orient (Casara)
Bhorat Airways Ltd.
Deacon Airways Ltd.
Aerovias Reforma, S.A.
Thai Airways Co., Ltd.
Central African Airways Corp.
Co. Mexicana de Aviacion, S.A.
Aerolinee Italiane Internazionali (Alitalia)

Because you want the very best for your car the selection of Champion Spark Plugs by every major airlines is an important fact for you.

The airlines continually put every make of spark plug to the most scientific tests in laboratory and in flight. *And they buy Champions because they prove superior to all other spark plugs!*

When you install Champions you get the advantages of the same engineering, research and manufacturing skills that the airlines demand and get. This means peak performance, complete dependability and lower operating costs—whatever car you drive and however you drive it. Stop at your nearest Champion Dealer and let your engine prove why Champions are the world's largest-selling spark plugs.

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO



CHAMPION

SPARK PLUGS





Many Big Moments begin with a Familiar Ring

Often it's a call you've hoped for and waited for. From someone dear or about something especially important to you.

Then suddenly there's a familiar ring. And everything's just wonderful! Many's the time you would have paid the telephone bill for a whole month—and more—for that one call.

Whenever the telephone rings, it's a reminder of its double value. It keeps you in touch with other people. Helps other people keep in touch with you. Some days the calls you get are even more important than those you make.

Yet the cost of this two-way service is small. Less than a penny an hour for the average family.



BELL TELEPHONE
SYSTEM



*"Jack phoned
to ask me to
the dance"*



*"A prospect
telephoned to give
me a big order"*



*"Bob, Jr., called
to tell me
it's a boy"*



*"My Scoutmaster
phoned about
a camping trip"*

This One



LABH-47Y-R26Q

"LIKE MEN-ACTIVE WOMEN NEED A RUGGED WATCH"

TIMEX

Says *Barbara Ann Scott* Olympic Skating Champion



WATERPROOF* • SHOCK-RESISTANT • DUSTPROOF*



TIMEX MARLIN AND TIMEX SPORTSTER

Sweep-second hand, radolite dial, chrome case, stainless steel back.

\$11.95
EACH

PLUS 10% FEDERAL TAX

Full-size Marlin or petite Sportster — both of these Timex Watches undergo the same rigid tests — they are equally waterproof*, dustproof* and shock-resistant — take use and abuse and tick on faithfully. Throughout her busy, active day — at home or on the ice — Barbara Ann Scott uses and depends upon the Timex Sportster to serve her well. Just as doctors, engineers, seamen, farmers — men in every walk of life depend upon their Timex Marlins to look right and run right.

*Stays waterproof and dustproof as long as crystal, crown and back are intact and, if removed, expertly replaced.



V-Contic Movement is an exclusive Timex feature. It is the greatest advance in over 200 years of watch making. Unique cone-shaped balance staff turns on enduring special Armalloy bearings, gives amazing strength and accuracy.

ONE YEAR GUARANTEE

TIMEX PRODUCT OF THE WORLD'S LARGEST MANUFACTURER OF WRIST WATCHES • 500 FIFTH AVE., NEW YORK 36 • ALSO IN CANADA, 355 KING STREET W., FLOOR 3, TORONTO

There is a way to wash and dry all these safely!



In Norge there's a way to wash even hand-knits without fear of shrinkage.



After a gentle Norge wash, hang and dry sheer blouses on Norge's built-in rack.



Electric blankets are safe in Norge, can be gently dried without tumbling.



There's an easy way to wash and dry hand-sewn lampshades—right in your Norge!



Foam rubber pillows need gentle washing, air-drying. Norge provides both.



Norge safely takes over the messy job of washing and drying rubbers, galoshes.



Lastex girdles have longer life when washed and dried the safe Norge way.



Orlon, Dacron—all miracle fibres are simple to wash and dry in your Norge.

new **NORGE** Laundry Maids



New Port-a-Base, available as optional equipment, makes your Norge Time-Line Washer as mobile as a teacart!

NORGE *Time-Line* AUTOMATIC WASHER

• Anything that's hand-washable is Norge-washable—for this completely automatic washer is completely flexible, too. Wash with hot or warm water—skip, shorten or repeat any action with one touch on the lighted Time-Line control.

Norge washing is so gentle it actually prolongs normal fabric life. And rinsing is extra-thorough. Every trace of soap and soil is floated out in Norge's 5-Way Warm Rinse. Super-Spin leaves clothes almost ironing-dry—but never tangled or torn. In Safety Spin model, the spin stops automatically when the lid is lifted, then resumes its spin when the lid is closed.

NORGE *Time-Line* AUTOMATIC DRYER

• Here's the dryer with no limitations. You can dry anything safely—from lampshade to lastex! Of course you can use it like other dryers—with heat, tumbling and air. But only Norge lets you turn off the heat or the tumbling—or both—at the flick of a switch.

Even with heat on, Norge never goes above a gentle 140°. But clothes dry faster because the triple-size fan blows more air through them. There's a removable rack for non-tumble drying, safety switch that stops action automatically when you open the big door, ozone lamp to leave clothes sunshine-sweet. Gas or electric models.

TEST-BUY THE LAUNDRY MAIDS

Norge's money-back guarantee permits you to use the washer or dryer (or both) in your own home for 30 days. If you're not completely satisfied, your Norge dealer will refund your money.



NORGE... *just the best in home appliances*

Refrigerators • Freezers • Gas and Electric Ranges • Automatic and Conventional Washers • Gas and Electric Dryers • Gas and Electric Water Heaters

DIVISION OF BORG-WARNER
MERCHANDISE MART • CHICAGO 54
In Canada: Addison Industries, Toronto

for all you have ever wanted in Extra Safe Long Mileage

Pound for Pound

General's new **NYGEN*** cord is stronger than steel cables

★ The carcass strength is 2½ times greater

★ Repeated tests prove its blowout pressure is 15 times its air pressure

Today tires have to be tremendously *strong* . . . to be safe at modern highway speeds, give long mileage, quick stopping and all other desired features.

With known cord materials, the tire of ideal strength was impossible—without building it so heavy that it would generate enough internal heat to cause blowouts.

To meet this problem, General's research engineers set to work developing an entirely new and stronger cord. NYGEN is the tire-history-making result of that search.

The General Tire with Nygen Cord is at your General Tire Dealer's NOW.



**THE
GENERAL
TIRE**

WITH NEW
**NYGEN
CORD**

*T.M. G.T.&R.Co.

COMPARISON CHART

(Note: 8.00x15 passenger car size was used for comparative purposes in engineering tests showing these results.)

| | Length of Cord in Yards | Carcass Strength in Pounds | Bursting Pressure | Tire Weight |
|---------------------------------|--|---|---|--|
| General Tire with Nygen Cord | 5,835.9 | 4,620 | 360 | 31.90 |
| Tire A | 3,979.6 | 1,845 | 220 | 27.66 |
| Tire B | 3,846.8 | 1,961 | 215 | 28.81 |
| Tire C | 3,582.5 | 2,329 | 205 | 26.4 |
| Tire D | 3,920.9 | 2,312 | 219 | 25.22 |
| | More than a mile MORE in every case! | From twice to 2½ times greater carcass strength in every case! | NYGEN withstands blowouts at 15 times the normal air pressure! | Proved for good, NYGEN is stronger than steel cables! |

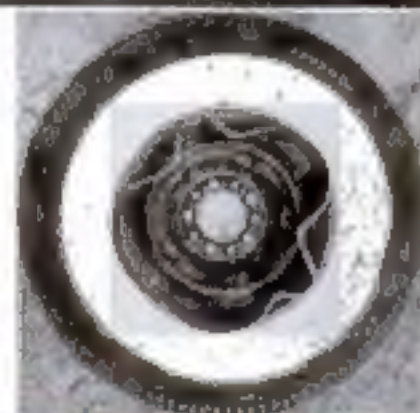
In addition, the Hygroscopic Factor, or moisture absorbing property of NYGEN was found to be 1/5 that of the cord material used in the other four tires. Furthermore, moisture has no weakening effect on NYGEN.



Bulldozer torture test proves Nygen's strength!

A General Tire with Nygen Cord, mounted on a standard 15-inch passenger car rim and wheel, was rammed repeatedly by two on-rushing bulldozers, distorting the wheel as pictured at the right.

The General Tire was fully inflated and unharmed after this repeated test of tire strength!



NYGEN CORD IS NOT WEAKENED BY "DAMP ROT"

"DAMP ROT" is the weakening action set up in ordinary tire cords by moisture. It is the unseen cause of blowouts which occur under the impact of sudden stress on weakened cords—heat at a high speed, flexing on a curve, or the strain of a quick stop. Nygen cords absorb practically no moisture and can be submerged in water indefinitely without being weakened.

GET 100% MORE CONTRAST—yet pay only \$4^{00*} more!

Change to a G-E Aluminized Picture Tube



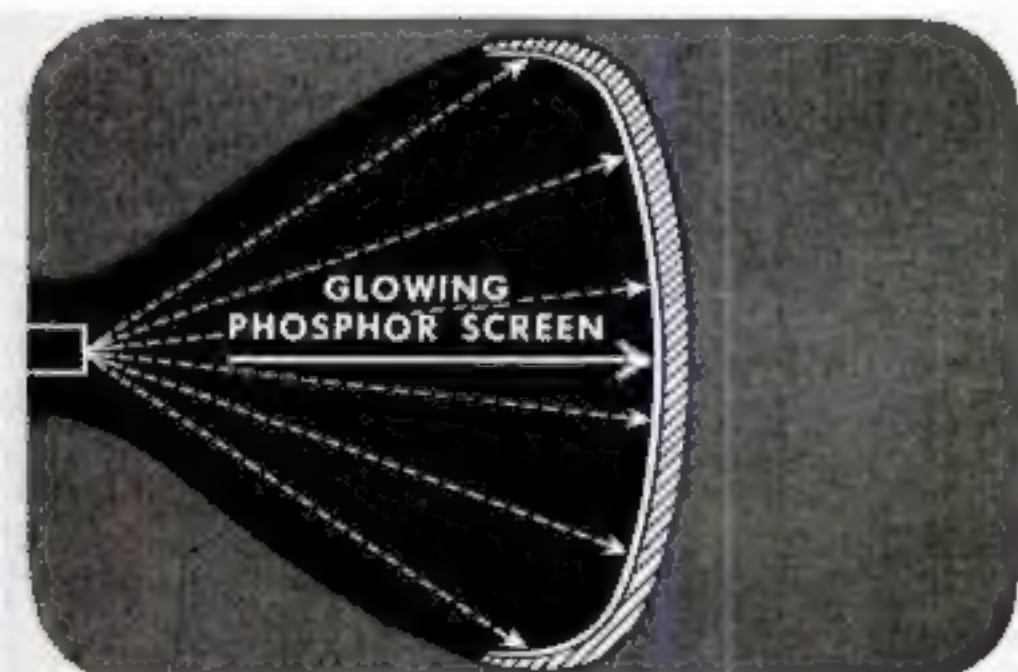
If Crosby comes in "chalky" instead of crisp and clear—make your old tired-tube TV better than new with a General Electric Aluminized Picture Tube. Get contrast, detail and picture quality you never dreamed possible.

Tell your serviceman you want a G-E Aluminized Tube. He'll install one quickly in almost any make, age, and size of set. *And you can get a genuine, factory-warranted, 21-inch G-E Aluminized Tube (21ZP4B) for as little as \$4.00 more than an ordinary tube. Tube Dept., General Electric Co., Schenectady, N. Y.

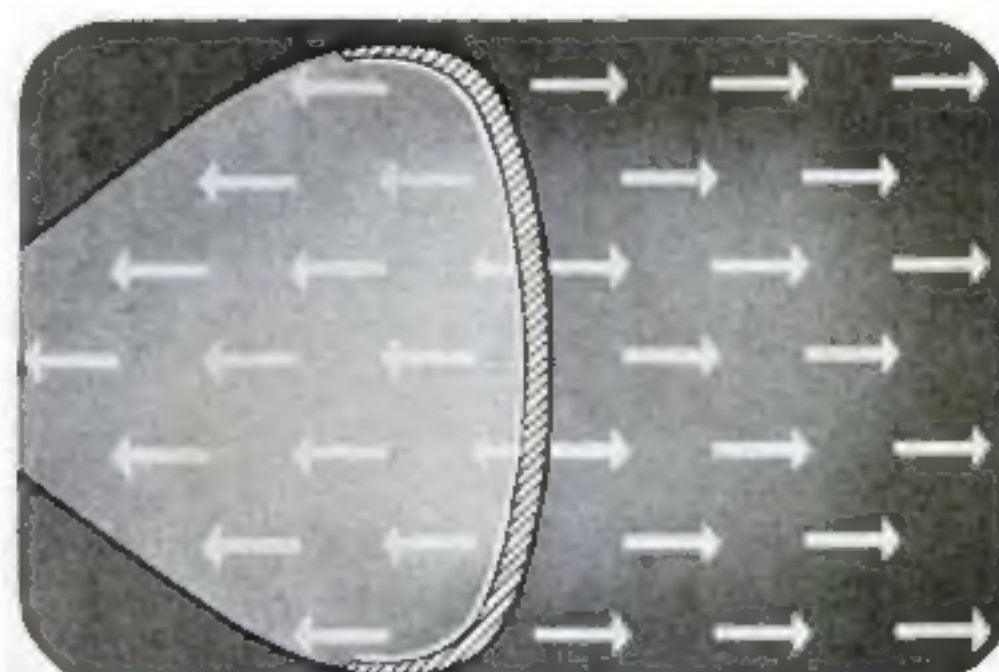


Bing Crosby starring for General Electric—CBS—Sunday nights

Here's why the G-E Aluminized tube makes old TV pictures better than new...



1. ALL TUBES WORK LIKE THIS. Electrons shot from a "gun" in the neck of a picture tube create picture light when they strike the phosphor coating on the inside surface of the tube's face.



2. IN AN ORDINARY TV TUBE much of this picture light is lost. It bounces back inside the tube, robbing the picture of brightness, contrast. Result: faint, chalky, "washed-out" pictures.



3. IN A G-E ALUMINIZED TUBE an aluminum mirror, that passes electrons, *blocks* picture light from going back into the tube. It "mirrors" all the light out toward you—strong, clear!

You can put your confidence in—

GENERAL  ELECTRIC

165-1A1



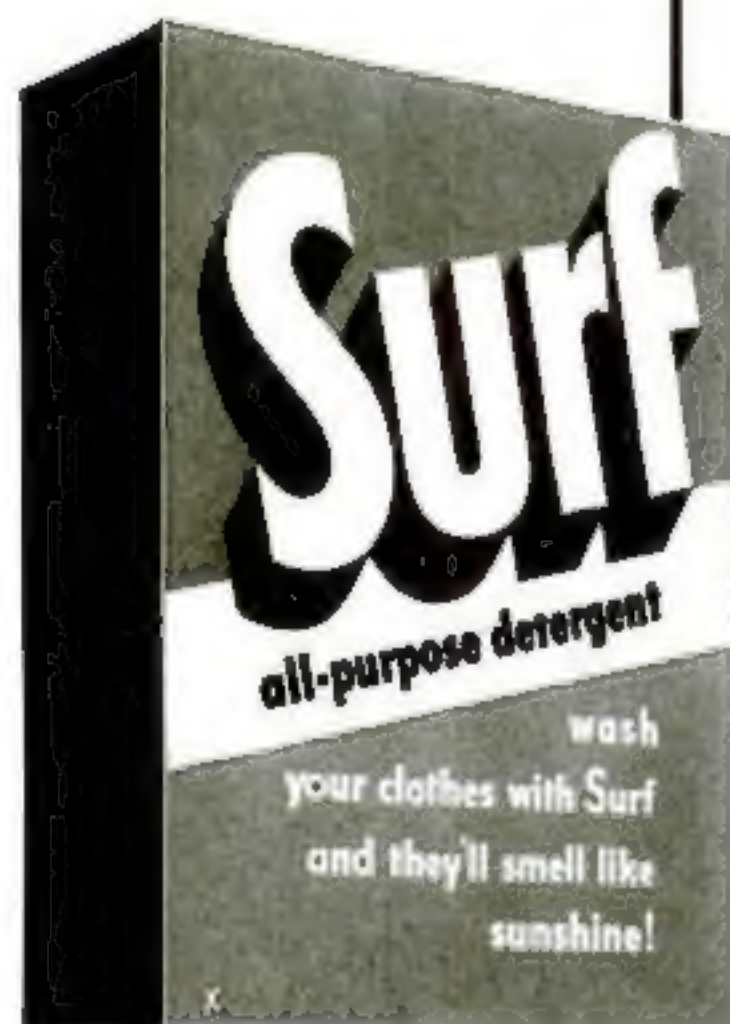
ART LINKLETTER SAYS:

You can't lose! Everybody wins in the

Lucky Lever

\$100,000 Sweepstakes

...because everybody receives valuable coupons plus a chance to win \$25,000 or any one of more than eleven thousand other prizes! No skill required! Nothing to guess! Nothing to write but your name and address!



How many of these four famous Lever Brothers products are in your home? Together they fill all your washing needs. We believe that each is the best in its field and think that once you have tried them, you will agree. So we are offering you this opportunity to try them at a worthwhile saving—plus a chance to win \$25,000. Any way you look at it, you can't lose!*



Your sweepstakes coupons and entry blank are in the mail!

Here's the easiest way to win a small fortune you ever heard of! As soon as you get your entry blank, just fill it out and send it in. Full rules are printed on it. Winning names will be drawn just as soon as the sweepstakes closes. You've got as good a chance to win as anybody else. So fill in that entry blank and send it in as soon as you can!

*P. S. Art Linkletter says: "When Lever Brothers say you can't lose, they really mean it. If you're not completely satisfied with any of their products, they'll give you your money back."



GRAND PRIZE.. \$25,000.00

10  FORD RANCH WAGONS.. \$20,000.00
(or \$2,000)

1,000 WESTINGHOUSE  CLOCK RADIOS WORTH.... \$40,000.00

10,000 OTHER GLAMOROUS PRIZES WORTH..... \$18,500.00



Three-shift Sacony suit

**SHEILAH ROSS LEADS THREE
LIVES IN \$25 SACYNY SUIT OF
FAMOUS PALM BEACH* CLOTH**

One day last month a 25-year-old dark-haired girl hailed a taxi at Grand Central Station and rushed to a well-known fashion photographer's studio. Several days later, looking relaxed and feminine, the same girl dined with her lawyer-husband in a quiet little New York bistro. The time in-between had been spent negotiating with schools and museums for a job teaching art to children, running a home in Tuckahoe, and keeping a close watch on two small offspring.

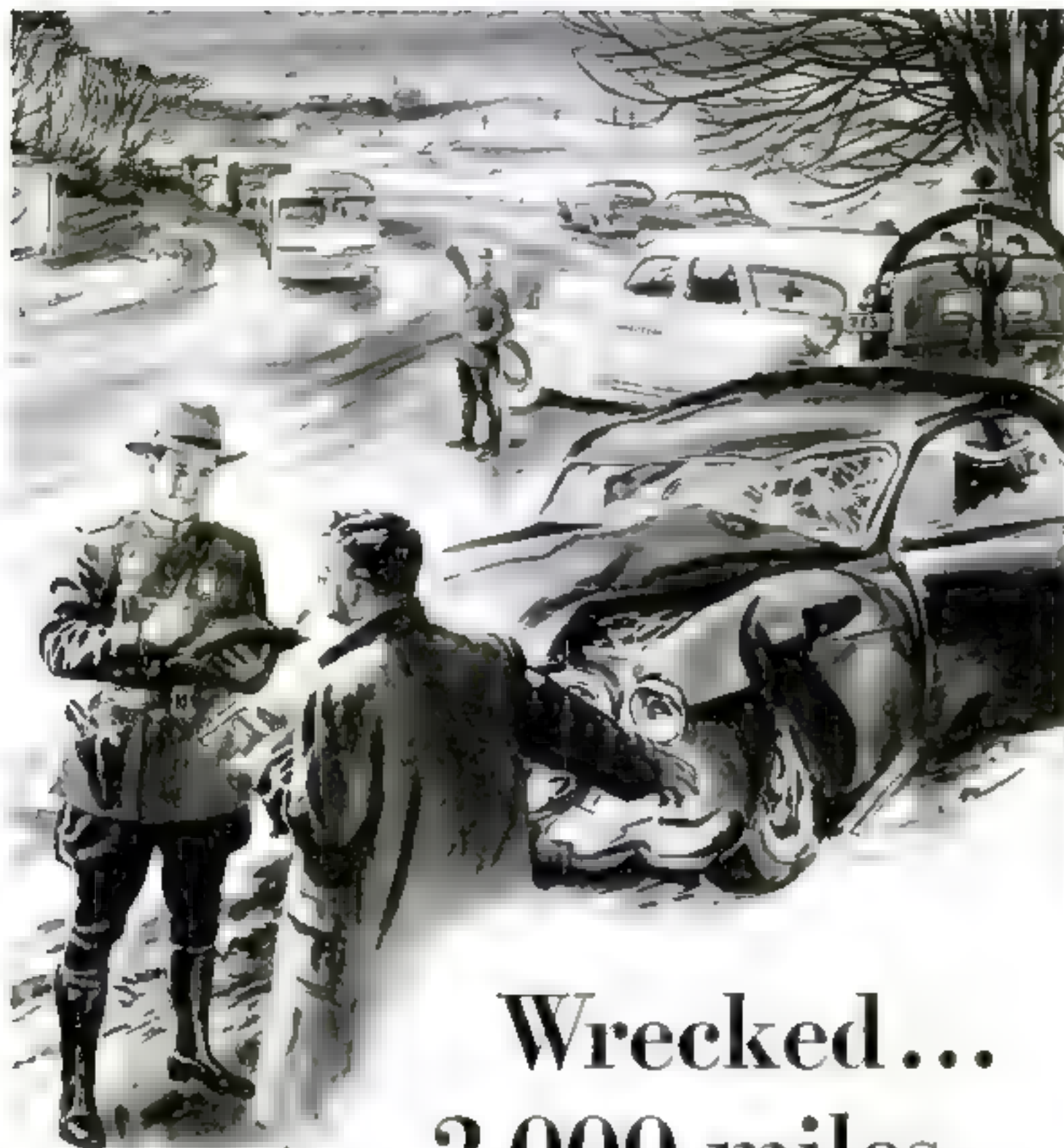
Model-wife-teacher Sheila Ross says she is no more harried than many of her equally versatile friends. Next to a strong constitution, she insists the important thing is to choose really flexible clothes. Here she demonstrates how one basically simple, well-built suit can work three shifts. The suit is made by Sacony of famous Palm Beach cloth, a superbly constructed fabric of rayon, acetate and wool that resists wrinkles, washes as well as dry cleans, wears almost indefinitely.

Sacony suits of Palm Beach cloth cost just \$25, come in fourteen styles, ten colors, and so many different size ranges that they seldom need alterations. For store names write Sacony, Dept. S, College Point, N. Y.

*PALM BEACH TRADE MARK REG. BY GODDALL-SANFORD, INC., MFR. OF CLOTH

SACYNY'S \$25 PETAL-POCKET SUIT TAKES ON NEW PERSONALITY WITH EACH ROUND OF ACCESSORIES.

ADVERTISEMENT: copyrighted by Sacony



Wrecked... 2,000 miles from home!

*But I found helping hands
in a town I'd never seen before*

(Based on Company File #26 KAL 8898)

It was a cold, snowy day. My wife and I were driving home from a winter vacation. Suddenly the car skidded on an icy strip...

I lost control. We went off the road and landed in a ditch. Anne was badly hurt. I had only a few bruises. The car? Smashed for keeps.

After I'd seen Anne safely in the hospital, I got my insurance man on long distance. He put me in touch with the Hartford Agent right where I was.

That local man really went out of his way to help us! Phone calls. Legwork. He sure moved fast—and

got results! Five days later I felt free to start home. My car had been replaced. The Hartford Fire Insurance Company paid for it. No hospital or doctor bills to worry about. The Hartford Accident and Indemnity Company paid them.

Anne couldn't travel with me because of a back injury. She had special Pullman accommodations. The Hartford Accident and Indemnity paid for those, too.

You can see why I'm a Hartford booster. I'll never forget the wonderful way all the Hartford people treated us when we needed help.

When you own a Hartford policy of any kind—on your car, home, family or business—you can count on service.

Day and night. Sundays. Holidays. At home or away.

You'll find Hartford Agents just about everywhere to relieve you of anxiety... red tape... expense. And behind them are all the resources of the Hartfords—and a tradition of dependable, sympathetic service.

Year in and year out you'll do well with the

Hartford



Hartford Fire Insurance Company • Hartford Accident and Indemnity Company
Hartford Live Stock Insurance Company • Hartford 15, Connecticut

LETTERS TO THE EDITORS

PIECE-BY-PIECE SCHOOLS

Sirs:

You are to be commended for the project you have adopted on school-building construction ("New Schools, Economy Too," *LIFE*, Feb. 1). The need for additional classrooms is well known. The aid and assistance a magazine such as yours can give will help much.

HERBERT WHEELER
Commissioner of Education

State of Missouri
Jefferson City, Mo.

Sirs:

Your illustrations are a major contribution to public and professional understanding.

EDGAR FULLER
Executive Secretary

National Council of
Chief State School Officers
Washington, D.C.

Sirs:

... A wonderful solution to the overcrowded school problem in a small town or city. But what about the core of the problem: the large city?

ROBERT J. LEVINE

New York, N.Y.

• For schools in large cities where space is limited, the piece-by-piece design could be adapted to each situation. The designers could still include such features as the open corridor, folding walls and the common rooms.—ED.

Sirs:

My theory is to go back to the three-story affair we had in the old days. The kids need to run up and down the stairs.

O. R. BARKHOLL

Downers Grove, Ill.

Sirs:

... How do your architects expect to keep the screech of saws or vibrant hum of a power planer from sounding along the central corridor?

PERCEVAL MOTT

Winchester, Mass.

• The plan produced by the architectural firm of Perkins & Will provides for acoustically treated panels in the workshops to reduce noise. However the designers maintain students should be exposed to some

of the distractions that they might encounter at home or in a future job. ED.

MOVING DAY

Sirs:

From this picture (below) it looks as if a Marine Corps helicopter landed in Nigeria and mechanized the native method of social hut-hoisting ("Moving Day in Nigeria," *LIFE*, Feb. 1). But, true to civilization, the Marine adaptation is a mobile shelter for war while the Nigerian one is just for avoiding housework.

HAROLD KLEBER

Chicago, Ill.



NEW TROOP SHELTER

DYNAMITE ARROW

Sirs:

Three cheers for the citizens of Cairo, Ill. and for their activities against segregation foe Lanaden ("Dynamite Arrow," *LIFE*, Feb. 1).

GEORGE C. KENNEDY JR.

Philadelphia, Pa.

Sirs:

My congratulations to David Lanaden whose neighbors would not be so discriminating in heaven, provided they make it.

M/SGT. HUGH F. O'REILLY

West Point, N.Y.

Sirs:

I've just returned from a stretch in Korea, preceded by four years in the South Pacific, which completely shattered all the ego I ever had for my race being "God's chosen people." I was taught you could measure a man by his intelligence, honesty, integrity and what he has done for his fellow men. Using these criteria, it would be interesting to compare David Lanaden with a few Connell Smiths. I hate to think I lost a foot for a man like Smith.

FRANK C. WILDER

Palo Alto, Calif.

Sirs:

The idea of the arrow is superb, although not in the way its sponsor meant. It designates one intelligent and free-minded citizen of the discouraging town of Cairo.

LOYCE BAUM

Duluth, Minn.

THE BRICKER AMENDMENT

Sirs:

Congratulations on your fine, precise editorial ("The Bricker Amendment," *LIFE*, Feb. 1). I only wish a few of our "intelligent" senators could see the light as you do...

CHARLES L. SCHWARTZ JR.

Gambier, Ohio

Please send **LIFE**

to _____ name _____

_____ address _____

City _____ zone _____ state _____

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Give to your newsdealer or to your local subscription representative or mail to LIFE, 540 N. Michigan Ave., Chicago 11, Ill. L-3408

CONTINUED ON PAGE 12

GET A WHIFF... TAKE A TASTE... IT'S A Meatless Macaroni Masterpiece



**SENSATIONAL
CUTLERY
OFFER!**

WITH ANN PAGE MACARONI PRODUCTS

Equip your kitchen with de luxe cutlery at TREMENDOUS SAVINGS. Quality features: 1) Made and guaranteed by Cattaraugus—famous since 1876; 2) High carbon vanadium steel takes a keen, long-lasting edge; 3) "Safety grip" hard rubber one-piece handles.

YOUR CHOICE OF 7 ITEMS

☐ 9 1/2" Pancake Turner (value \$1.35)—50c. ☐ 11 1/2" Utility Fillet Knife (value \$1.25)—45c. ☐ 10" Kitchen Fork (value \$1.10)—40c. ☐ 7 1/4" Steak Knives (value 2 for \$2.00)—2 for 75c. ☐ 12 1/2" Roast Slicer (value \$1.75)—85c. ☐ 6 3/8" Paring Knife (value 95c)—35c. ☐ 12 1/4" French Cook Knife (value \$1.75)—85c.

CUTLERY, P.O. Box 300, Little Valley 2, N. Y.
Please send me items checked above. I enclose an Ann Page trademark from macaroni, spaghetti or noodles for each item and cash (no stamps).

NAME (print) _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

CUTLERY, P.O. Box 300, Little Valley 2, N. Y.



Turn to the macaroni family of foods for bubbling casseroles bright with savory flavor. Serve this marvelous meatless main dish and hear 'em cheer! Make it with Ann Page macaroni—top quality at a thrifty price!

All Ann Page Foods are a joy to eat and a boon to your budget. They're made of choice ingredients in A&P's own modern Ann Page food kitchens and sold in A&P stores. This eliminates unnecessary in-between expenses and you share the savings!

MACARONI PARMIGIANA

| | |
|----------------------------|--|
| 2 cloves garlic, minced | 1 1/2 teaspoons oregano |
| 2 tablespoons olive oil | 8 oz. pkg. Ann Page elbow macaroni |
| 8 oz. can tomato sauce | 1 lb. cottage cheese |
| 19 oz. can tomatoes | 1/2 lb. Moxarella for Swiss cheese, |
| 1 small onion, minced | 1/2 cup grated Parmesan or the inn-style cheese |
| 1 1/2 teaspoons salt | |
| 1/4 teaspoon pepper | |

Brown garlic in oil. Stir in tomato sauce, tomatoes, onion, salt, pepper and oregano. Cover and simmer until thickened, about 15 to 20 minutes. Cook macaroni until tender according to package directions. Drain. Fill 3-quart casserole with alternate layers of macaroni, cottage cheese, tomato mixture, Moxarella cheese, and Parmesan cheese. Bake in moderate oven, 375°F., for 20 to 25 minutes. Serves 6 to 8.



PROVES

*Fine Foods
Needn't Be
Expensive*

Among the 33 fine foods in the Famous Ann Page Family are such favorites as:

Preserves, Prepared Beans, Peanut Butter, Salad Dressing, Mayonnaise, Prepared Spaghetti, Sparkle Gelatin Desserts and Puddings, Tomato Soup, Ketchup, Spices, Extracts, Etc.





A beauty? You don't know the half of it till you drive this

DESOTO AUTOMATIC

- ✓ new selection of rich interiors...new smart instrument panel.
- ✓ new automatic drive. No clutch. Smooth, silent, swift getaway.
- ✓ new power: FireDome V-8 stepped up to a mighty 170 h.p.
- ✓ new level ride: stability on curves...cuts tire squeal on corners.

Want to sample something terrific? Then try a DeSoto. It has the exciting new PowerFlite transmission. It takes you from dead stop to highway speed fast—without the slightest lag or hesitation. *There's no clutch!*

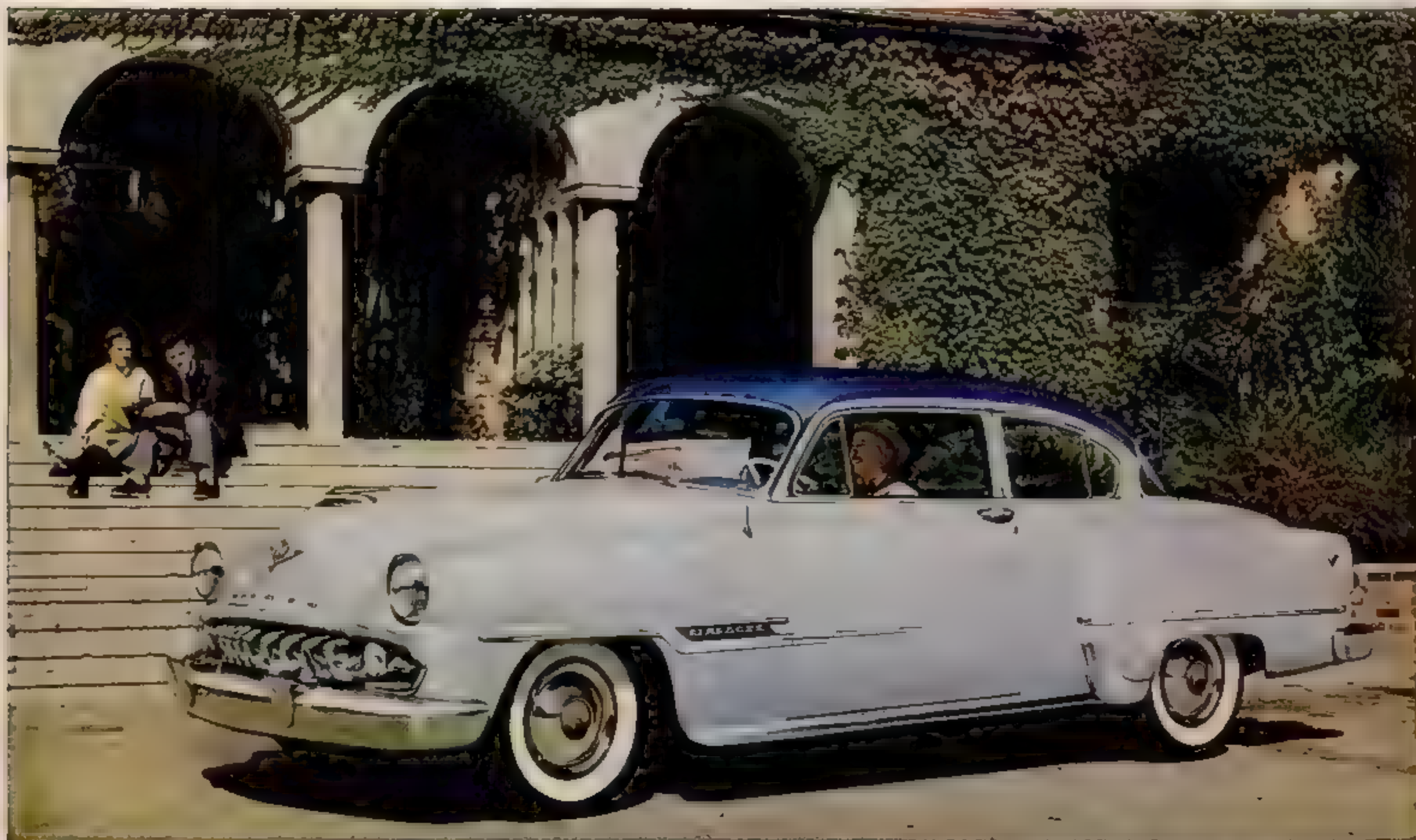
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LETTERS TO THE EDITORS CONTINUED

Sirs:

I feel flattered that you included bits of my testimony on the Bricker amendment before the Senate Subcommittee of the Committee on the Judiciary, but there was nothing in it to warrant your comment that the Brickerite position is "an isolationist response to the visible threat of international socialism." I also testified as follows:

"... I sincerely hope that the U.N. will succeed as an organization for the maintenance of international peace and security by collective action. . . .

"Collective security . . . can and should be accomplished without sacrificing our form of government or the fundamental principles upon which it is founded."

I do not believe many Americans will agree with your conclusion that my statements constitute "an isolationist response."

GEORGE A. FINCH
Washington, D.C.

Sirs:

I protest the preposterous suggestion in your editorial that Senator Bricker be appointed to head a charter revision delegation to the United Nations next year. I never expected you to propose the name of one of America's leading isolationists for such a vital job.

EDWARD SCHEINKMAN
New York, N.Y.

● Senator Bricker's so-called isolationism stems in part from his devotion to the U.S. Bill of Rights and our system of limited government. If he could sell these principles to other members of the U.N., its ventures in international lawmaking might have a sounder basis.—ED.

FASHIONS IN PUERTO RICO

Sirs:

Please, for men of goodwill everywhere, spare us from any more of those superskinny ladies in snorkels ("Hot Weather Warm-up," LIFE, Feb. 1). I'll take an old-fashioned fleshy, lusty, busty Rubens girl any time.

J. BELEW
Toledo, Ohio



● Herewith, without benefit of snorkels, are three Rubens ladies, a portion of the painter's *Arrival of Marie de Medici at the Harbor of Marseilles*.—ED.

Sirs:

According to the 1950 U.S. census, which places the population of Ponce, Puerto Rico at 126,810, your description of Ponce as a "village" seems a trifle out of focus.

LILLIAN E. VAZQUEZ
New York, N.Y.

Sirs:

... The populations of 31 state capitals in the U.S. are smaller than that

of Ponce, the second largest city in Puerto Rico.

JULIO C. RIVERA
Washington, D.C.

● Apologies to 126,810 Ponceños.—ED.

LAST MAN CAPERS

Sirs:

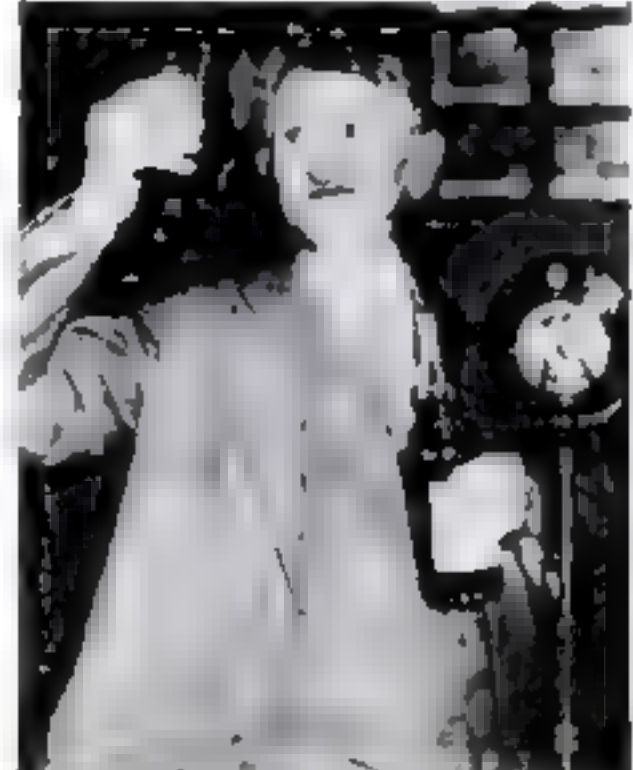
Dragging a casket through a cocktail lounge hardly befits a community's respected businessmen ("Life Goes to a Last Man Club Dinner," LIFE, Feb. 1). Such capers are had enough behind closed doors.

REV. WILLIAM E. VAUGHT
Pastor
First Baptist Church
Ojai, Calif.

Sirs:

You say that 93-year-old Charles Lockwood made a record by outlasting 34 other Civil War vets in the Last Man's Club of Stillwater, Minn., only to discover that the Burgundy he received as a prize had turned to vinegar. May we see his expression when he tasted it?

AMOS ADLER
New York, N.Y.



● Herewith survivor Lockwood with the sour wine of victory.—ED.

T. S. ELIOT

Sirs:

After reading your article on T. S. Eliot ("T. S. Eliot Turns to Comedy," LIFE, Feb. 1), I should like to add the following few lines to Mr. Eliot's own description in verse of what it is like to make his acquaintance:

Though unpleasant to meet Mr.
Eliot,
And whether or not he thought
well of it,
I'd still like to try for the
heel of it.

GENIVEVE HANSON
Newport Beach, Calif.

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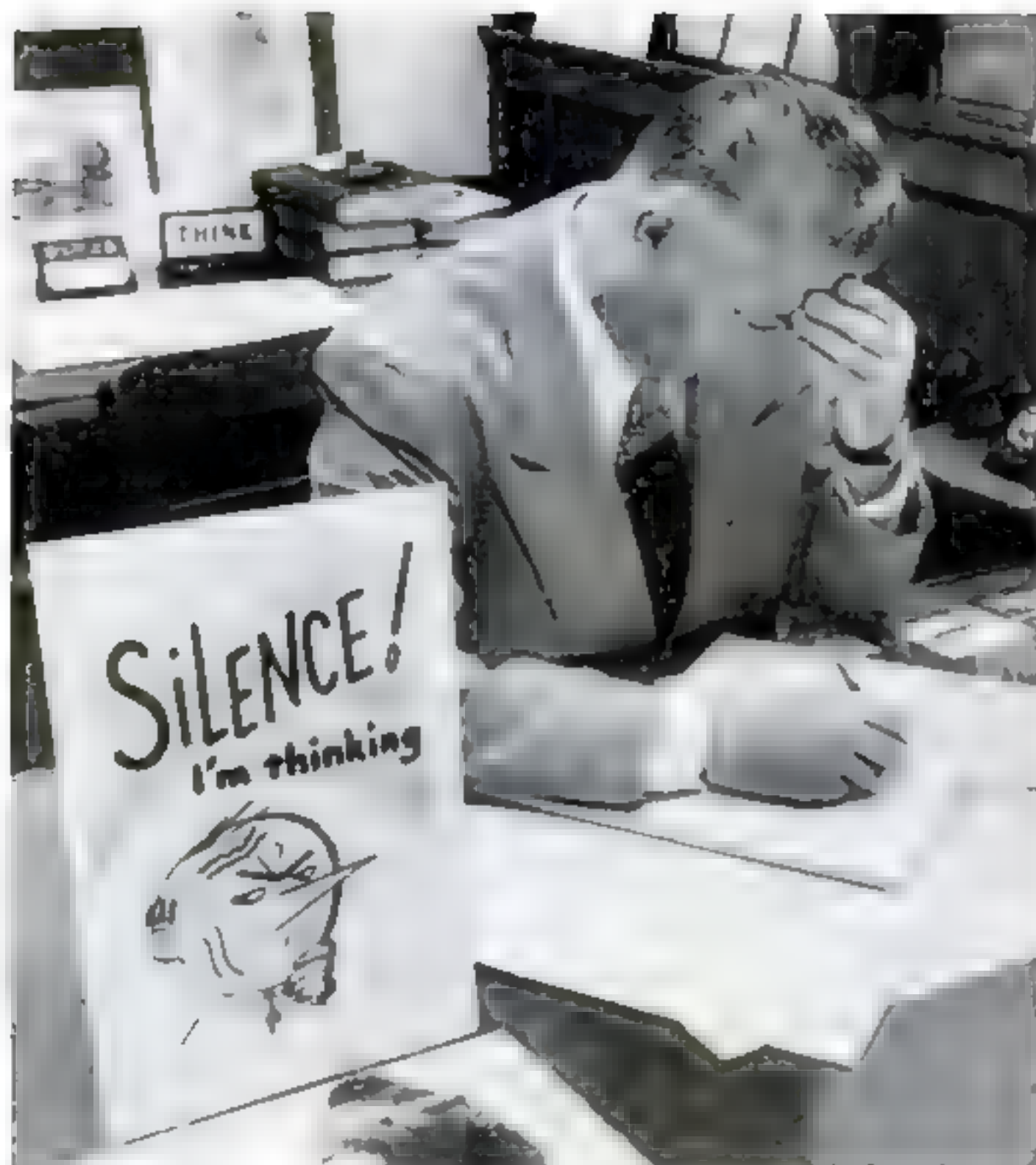
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MAYOR'S ASSISTANT, Bert Schlaff, jots down idea that came to him during thinking time. He thought of a traffic control improvement which will be used.



DEPARTMENT HEADS, meeting with Mayor Hubbard (shuffling his papers, background), offer their opinions of the THINK program. At first some timidly

SPEAKING OF PICTURES . . .

. . . These show attitudes of city officials during the mayor's THINKing hour

As the flamboyant mayor of Dearborn, Mich. since 1941, Orville Hubbard is always thinking up his own unique ways to improve the city (*LIFE*, March 5, 1951). But last month "Little Orvie" had had enough. Awakening one night with a start, he asked himself, "Why should I produce all the ideas for this damn town, anyway?" Next morning he sent out a memo to his 25 department heads, ordering

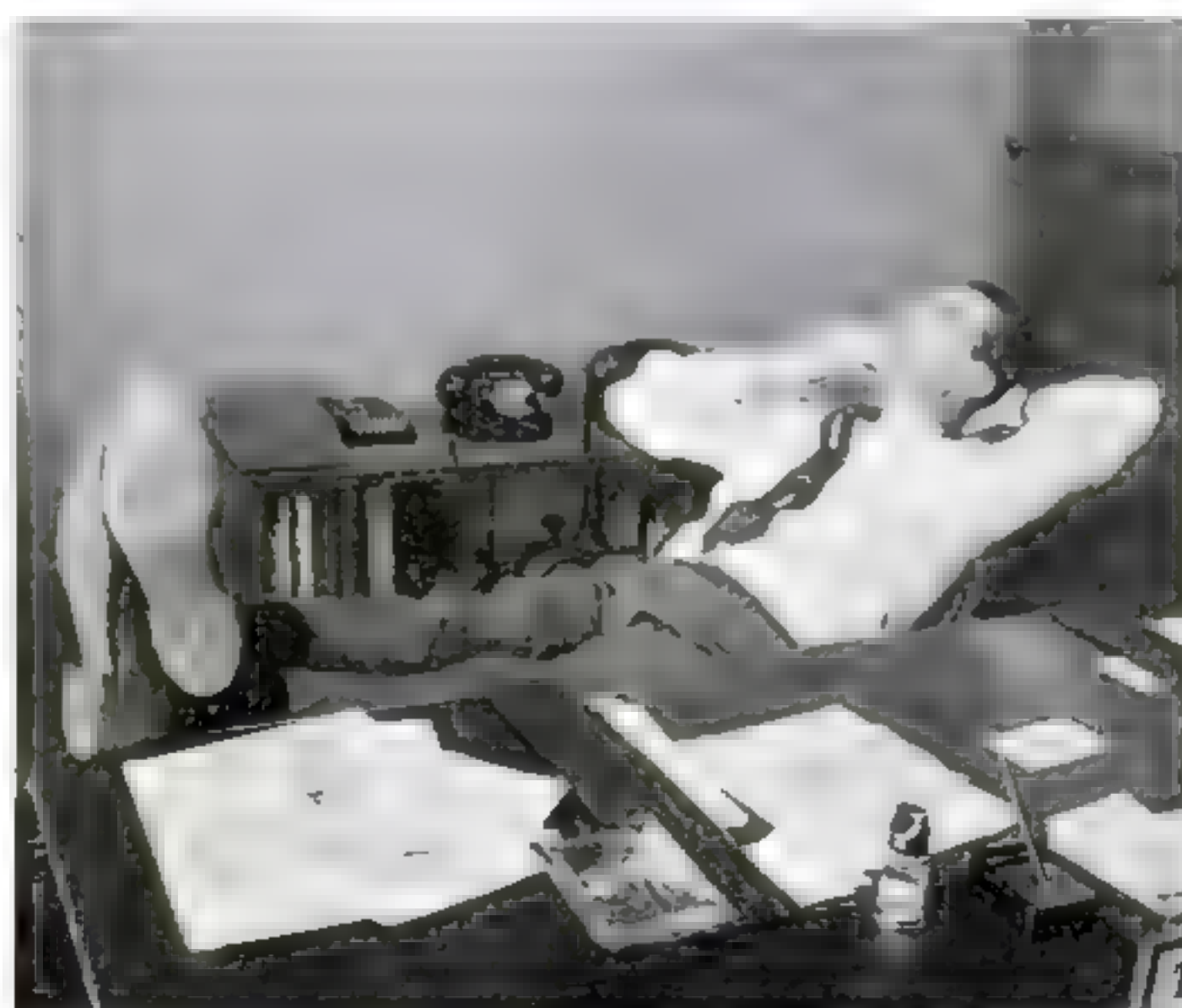
them to report to work 30 minutes early every day "for the purpose of devoting one-half hour to silent meditation and thinking. . . ."

Obediently holding up in their offices and ignoring even telephone calls, the staff struck the attitudes of thought shown on these pages. Everywhere, THINK signs urged them on. Once a department head confessed, "I thought so hard that I thought five minutes overtime."

Suggestions have proposed everything from an animal shelter equipped with a dummy fire-plug to a new 12-story, air-conditioned city hall. Two ideas for new traffic controls have already been approved for action. Last week, delighted with the results, the mayor decided to have his staff keep right on sitting and thinking. "That," says Orvie sagely, "is the way Newton discovered the law of gravity."



ASSESSORS James Hughes (foreground), Carl Farmer ponder taxes.



PUBLICITY-RESEARCH CHIEF Alex Filch gets an idea while looking at ceiling. Noticing bad bulb, he had all faulty bulbs in the building replaced.



FIRE CHIEF Frank Gilligan conceived an idea for fountains in park.



of the city. But the mayor was firm and the department heads unanimously voted to continue what Hubbard calls "the morning hour of meditation."



MAYOR HUBBARD writes down an idea thought up in his bed at home. Although he thinks all day, he claims the best ideas come to him late at night.



TRANSPORTATION DIRECTOR King Boring thought of moving bus garage out of residential area.

MAYOR'S DAUGHTER, Nancy Anne, a city hall stenographer, finds **THINK** sign in ladies' lounge.





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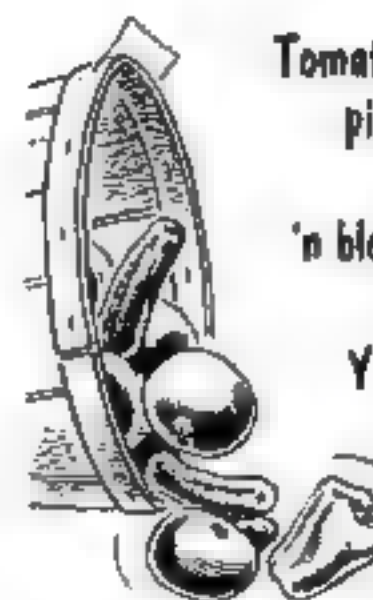
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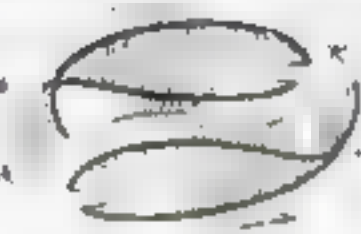
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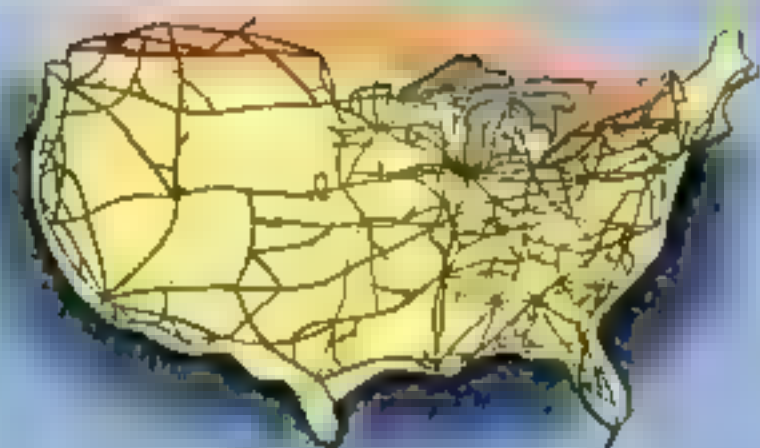
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SOME CONTRIBUTORS TURN UP IN ODD PLACES



SEVEN VODKAS IN BERLIN



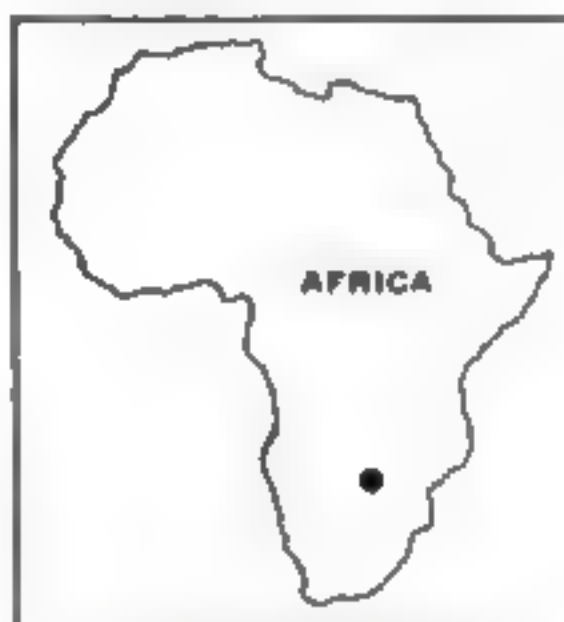
FIVE FATHOMS IN NASSAU

The pins which tell where LIFE correspondents work are scattered all over our office maps, but sometimes even the editors don't know where everyone is or where our news is coming from. Last week we were curious about what happened to Tom McAvoy after he invited himself to Mr. Molotov's exclusive party (LIFE, Feb. 15). He turned up, as might be expected, under a cold, damp cloth. He had succeeded in achieving protective coloration only by drinking seven glasses of vodka, Russian style, and reported his hangover to be "watermelon sized."

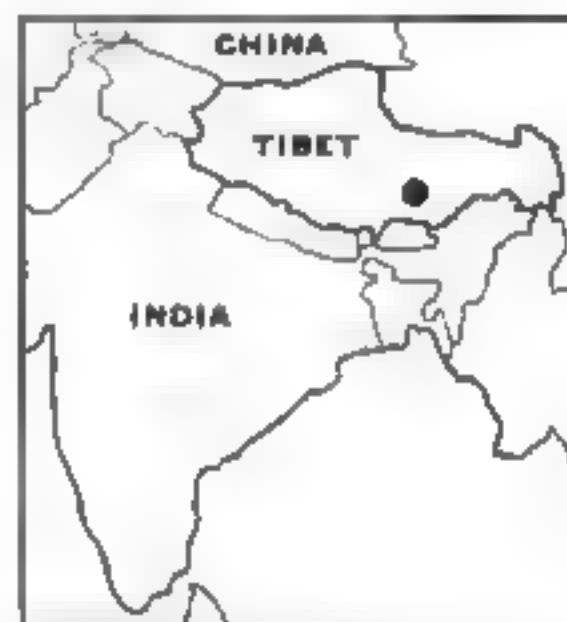
It was no surprise either to find Peter Stackpole, whose current specialty is underwater photography, in wet "long-johns." He had come up from five fathoms deep, where he had been photographing the filming of *20,000 Leagues Under the Sea* (pp. 111-117). Readers will remember his

underwater picture of Hope Root diving to his death (LIFE, Dec. 14), which has just won the George M. Polk Memorial Award for news photography. Writer Robert Coughlan and his researcher interviewed dozens of America's best-known medical scientists in tracing the trail of the polio virus which led to the new vaccine (pp. 120-135).

Tibet sounds pretty remote but Contributor Heinrich Harrer has been keeping LIFE readers up to date on the affairs of the Dalai Lama. As the tutor, Harrer has an interesting story to tell this week (pp. 83-92) about how he educated his revered young pupil. Quite unexpectedly, we also found last week that we had an eager contributor in Southern Rhodesia. Photographer Nicholas Stipinovich stepped off the local from Bulawayo, found and photographed (p. 29) a unique reason for the train's delay.



AN UNEXPECTED DELAY



AN UNEXPECTED JOB

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| GERDTS, M. R. FARMAN | 54—PIERRE BOULAT EXC. Y. DEVAUX OF "AURORE" |
| 33—A.P.—HANK WALKER (2), N. R. FARMAN | 55—THOMAS D. MCAVOY |
| | 56—FRANK SCHERSCHL |

ABBREVIATIONS: BOT., BOTTOM; CEN., CENTER; EXC., EXCEPT; LT., LEFT; BT., RIGHT; T., TOP.
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| 58—THOMAS D. MCAVOY EXC. BOY GEN. WASHINGTON STATE | 120—ANDREAS FEININGER |
| 61—JERRY COOKE EXC. DRAWING BY MATT GREENE | 121—ALFRED EISENSTADT—VERNER REED |
| 64, 65—J. R. EYERMAN | 122—INT.—DRAWING BY ADOLPH E. BROTHMAN |
| 68, 70—GEORGE SKADDING | 124—DRAWING BY ADOLPH E. BROTHMAN |
| 71—ROBERT W. KELLEY | 125—DRAWING BY ADOLPH E. BROTHMAN—COURTESY GEN. |
| 76—ROBERT W. KELLEY—ROBERT W. KELLEY—GEORGE | ERAL ELECTRIC CO. A.P. |
| SKADDING | 126—DRAWING BY ADOLPH E. BROTHMAN |
| 78—GEORGE SKADDING EXC. DRAWING BY TONY SODARO | 128—DRAWING BY ADOLPH E. BROTHMAN—INT.—INT. |
| 80, 81—SHANLAND | 131—COURTESY NATIONAL FOUNDATION FOR INFANTILE |
| 83—BT. A.P. | PARALYSIS |
| 84, 85—HEINRICH HARRER | 136—MARK KAUFFMAN—JUAN MANUEL RAMIREZ— |
| 90—REV. F. D. LEARNER AND GEORGE FITCH | MARK KAUFFMAN |
| 91—HEINRICH HARRER | 137—MARK KAUFFMAN |
| 93—JOHN DOMINIS | 138—ISAC ASTUDILLO FOR PRENSA LIDRE—MARK |
| 97, 98, 100—ALLAN GRANT | KAUFFMAN |
| 102, 103—HERBERT ORTH EXC. T. LY. DMITRI KESSEL | 141—FOTO MAYO |
| 104—HERBERT ORTH | 142—MARK KAUFFMAN |
| 107, 108—FRANCIS MILLER | 144—U.S. ARMY PHOTO BY M/S. JOSEPH P. WOLFE |

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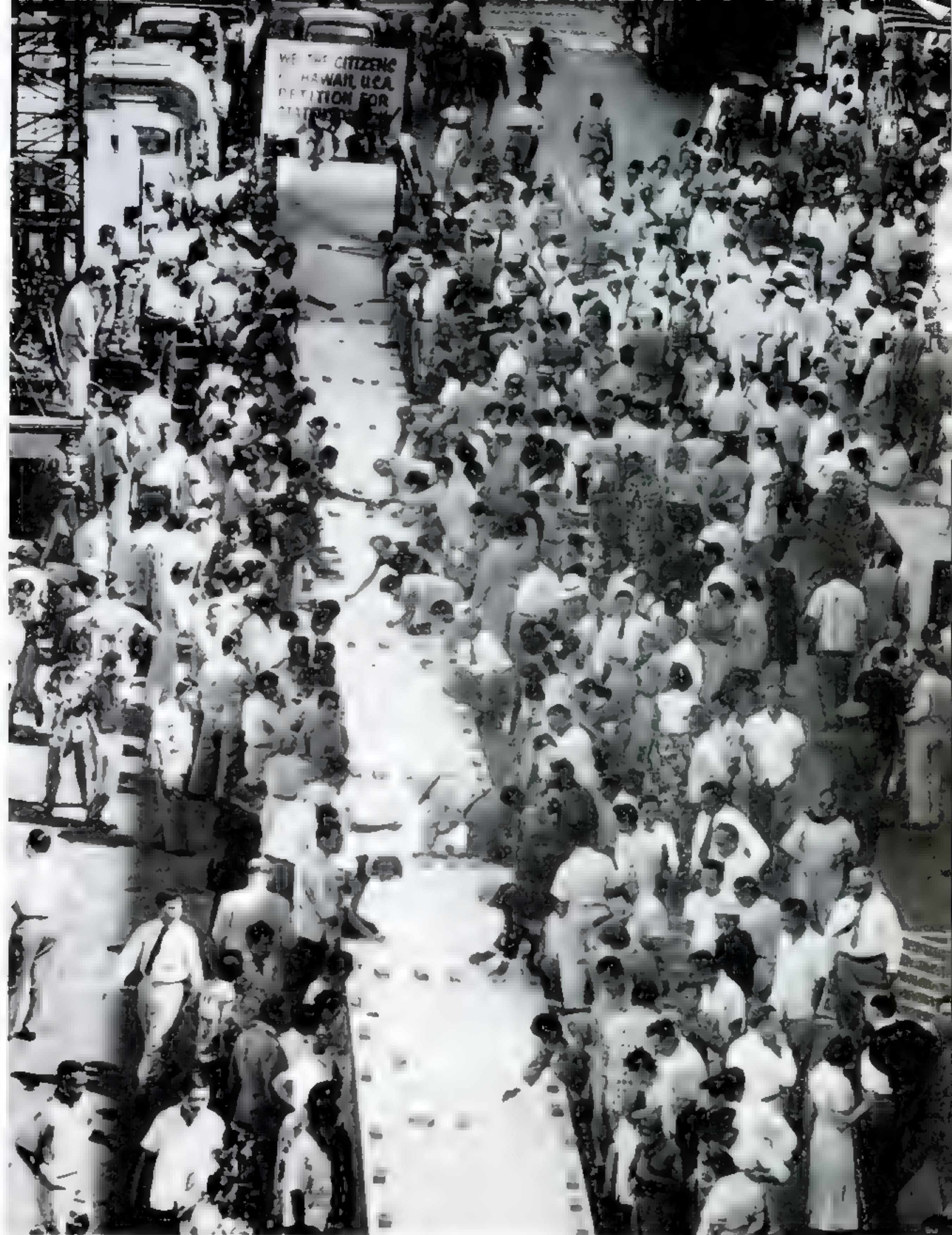
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Rhino Flex

"WITH OUNCE OF PREVENTION SAFETY DISCS"



THE PETITION, unrolled on Bishop Street and secured against trade winds by bricks, is signed by Honolulu crowds.

DECISION APPROACHES FOR HAWAII

In Honolulu last week a big bundle was being readied for shipment to Washington to be opened on the Capitol steps. It was a 500-foot-long sheet which began: "We the citizens of Hawaii, U.S.A., petition for statehood *now*." Below were the signatures of some 10,000 people, many of whom had got down on their knees in the street to sign (*above*).

Hawaii has been waiting for statehood for more than half a century. Last year a bill approving it—the third since 1947—was passed by the House, and this year, immediately upon convening, the Senate Interior

and Insular Affairs Committee shaped a similar bill. Some familiar Senate obstacles arose. Advocates of Alaskan statehood urged that the two territories be lumped in a single bill. Democrats, for their own practical reasons (*next page*), supported the double-header bill, knowing well that it would be doubly difficult to pass. But after a seesaw battle, the committee finally voted to let the Senate act on a separate bill for Hawaii. And this time, with debate set to start this month, there is a really determined effort behind it. A decision for Hawaii seemed at hand at last.



GOVERNOR King and wife scan the statehood petition. A Republican who is part Hawaiian, he is expected to be Hawaii's first elected governor.

LEADERS HAVE GAINED POLITICAL MATURITY

Democratic senators who have traditionally blocked statehood have generally been afraid of two things. Southern Democrats have resisted admission of a territory of 469,000 citizens of predominantly mixed ancestry for fear that two Hawaiian senators would help pass civil rights legislation. Others have been afraid that Hawaii, which for years had a solidly Republican territorial legislature, would automatically elect two Republican senators.

But if the statehood bill passes, mainlanders may be in for some surprises. One of them is suggested by these pictures of Hawaii's foremost political figures. They not only reflect Hawaii's sturdy racial mixture, which is largely Oriental and includes some 200,000 Americans of Japanese ancestry, but they are also men of education, ability and experience. They preside over a legislature whose proceedings, except for a traditional outburst of leis and aloha music on opening day, are almost indistinguishable from those of any state legislature. Hawaiian elections are orderly, though light-hearted, and Hawaiians have reached a degree of political maturity that has eliminated voting by racial blocs. The territory has produced, for example, outstanding Japanese-American Republicans as well as up-and-coming Japanese-American Democrats.

For more than 50 years Hawaii has been as solidly Republican as Maine because the plantation owners were Republicans and naturally influenced their once illiterate workers. But widespread education is breaking the old patterns and recently Democrats have made such gains that the Hawaiian Senate consists of eight Republicans and seven Democrats. The mayor of Hawaii's biggest city, Honolulu, is a Democrat. While Democrats in Washington still have their reservations, Democrats in Hawaii are hopeful that if statehood comes they will, in the prediction of their national committeeman, "elect one Democratic senator."



"MR. HAWAII," Walter Dillingham, 78, stands with son Ben in his garden. He is a construction and real estate empire. Dillingham once objected to



LABOR LEADER Jack Hall (left), convicted of Communist conspiracy, consults executives. Hall bosses longshoremen, Hawaii's biggest voting bloc.



SENATE PRESIDENT Wilfred C. Tsukiyama, a top Republican candidate for the U.S. Senate, slyly says, "I feel a strong disinclination to run."



CONGRESSIONAL DELEGATE Joe Farrington, Republican, studies a 49-star flag. In Washington since 1912, he may be one of Hawaii's first senators.



statehood, has now moderated his opposition. Ben is a Republican territorial senator who sang *Three Blind Mice* in Hawaiian during his last campaign.



HOUSE SPEAKER Hiram Fong perches on lanai of his house overlooking Honolulu's Nuuanu Valley. He is a partner of the law firm of Fong, Mbo,

Choy and Cluck and a potential candidate for U.S. Senate. A graduate of the Harvard Law School, he helped frame Hawaii's proposed state constitution.



HAWAIIAN-CHINESE-AMERICAN Bill Heen is Democrat, has been in Hawaiian Senate 27 years. He has beaten Caucasian foes in Caucasian districts.



CHINESE-AMERICAN Herbert Lee, Democrat, was elected to Hawaiian Senate in 1948 by largest majority in history. He may run for U.S. Senate.



JAPANESE-AMERICAN Sakae Takahashi, an ex-U.S. Army major, has a Scandinavian-American wife. He was first "Oriental" in Hawaii's cabinet.



FERN FOREST IS A FAVORITE STROLLING PLACE FOR TOURISTS ON HAWAII



PUNCHBOWL CRATER OVERLOOKING HONOLULU IS CEMETERY FOR 14,000



PINEAPPLES, islands' biggest business next to sugar, are exported at a rate of \$100 million yearly.

MAINLAND KNOWS ABOUT ISLANDS' SCENERY

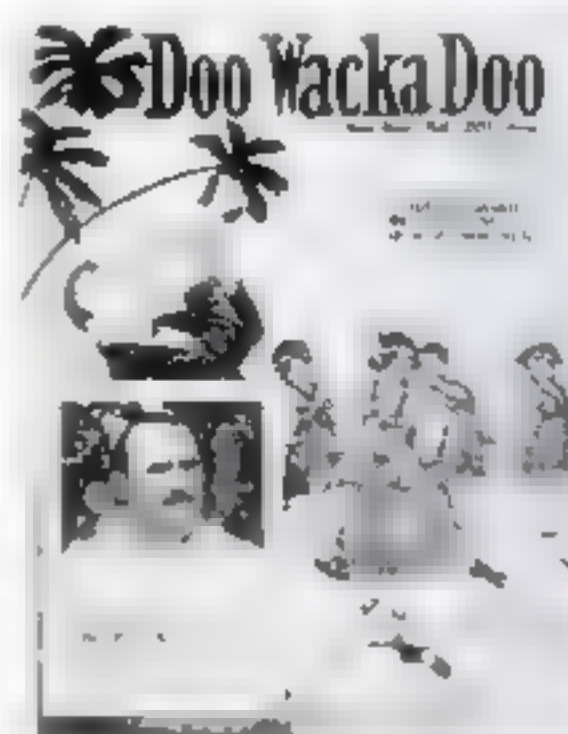
Americans think of Hawaii in terms of scenery, pineapple plantations and Pearl Harbor, but mostly in terms of its familiar music. For Hawaii made its first impact on the mainland 50 years ago via Tin Pan Alley. Its Hawaiian tunes have probably had a greater influence on the mainland than any other import from the islands. Originally Hawaiian music was a primitive two-note chant. Then the missionaries added to it a variety of *himene* (hymns). Before long the music of the impressionable islanders began to change. The range of their notes widened. Their rhythms were softened. Then Portuguese sailors added to the confusion by introducing an odd, four-stringed guitar which the islanders called a ukulele (which means "jumping flea," a metaphor inspired by the players' fingers hopping from fret to fret). A Hawaiian college student dropped a metal comb on the strings of his guitar, liked the odd sound it made and invented the steel guitar which became a mainstay of Hawaiian orchestras. Tin Pan Alley picked it up and so today Hawaiian music is about as simple as a soda fountain's Pineapple Delight (ingredients: white cake, crushed canned

pineapple, whipped cream, cracked nuts and a maraschino cherry). But for all the foreign innovations, Hawaii's own rulers have taken a direct hand in their country's music-making. Queen Liliuokalani, the last Hawaiian monarch,

wrote the most famous tune of all, *Aloha Oe* (Farewell to You). This haunting, lament-inspired when the queen observed two lovers parting, was lifted from the strains of the hymn entitled, *The Rock Breaks the Sea*. Years later, in 1916, the favor was returned by composers on the mainland who inverted the melody of *Aloha Oe*, gave it the meaningless title *Yacka Hula Hickey Dula* and presented the song to Al Jolson for his Winter Garden show. *Robinson Crusoe, Jr.* One refrain went: "I'm coming back to you my Hula Lou. Beside the sea at Waikiki, You'll play for me and once

again you'll sway my heart your way. With your yacka hula hickey dula tune." The song became a smash hit.

In the days when piano rolls and vaudeville held sway, there were dozens of other smash hits, catchy songs with catchy titles like *Oh, How She Could Yacki Hucky Wacki Woo*,





SERVICEMEN KILLED IN PACIFIC. DIAMOND HEAD RISES BEHIND THE CITY



NEW HIGHWAY ON OAHU WAS FINANCED BY BOTH TERRITORY AND THE U.S.

AND PINEAPPLES, BUT MOSTLY THEIR MUSIC

They're Wearing 'em Higher in Hawaii, and *The Honolulu Hick-Boo-Boo*. Some got maudlin, like *Rock Me In a Cradle of Kalua*, and others went still further afield, like a grass-skirt fox trot titled *Doo Wacka Doo* (opposite page).

A climax of some kind came in 1937 when Bing Crosby was given a song, already popular in Hawaii, to sing in his movie *Waikiki Wedding*. The song, *Sweet Leilani*, written by Harry Owens, soon set the steel guitars wailing and hula performers shaking more than ever, and juke boxes trembled with the tune.

Hawaiian music has always been milked for laughs too. *Hello, Aloha!* (right) in 1926 contributed to the American vocabulary with the lines: "Now I can uke and uke and uke and uke, And you can uke a ukulele too, And I can wick and you can wack, And we can wicki wicki wacky woo. . . ." It got so Comedian Joe Cook convulsed his audience just by tapping his foot on the stage, twirling his ukulele and announcing, "That is an imitation of two Hawaiians."

Some of the songwriters came up with constructive ideas. One such effort, *Lovely Hula Hands*, was an attempt by Andy Anderson to

focus attention on the meanings of hula hand movements. But the popular ditties still held the stage. With the passing of the piano roll and the fading of the uke (despite such latter-day virtuosos as Arthur Godfrey), Hawaiian

music has slowly lost ground. But while losing on the mainland, it has now been reimported to the islands, where Tin Pan Alley songs have been given another new twist. In Hawaii today the visitor is entertained by such oddities as a *Street Car Hula*, a *Radio Hula*, a *Fireman's Hula* and even *Holo, Holo, Kaa* (Go, Go, Car). Thus Hawaiian music completed almost a full cycle from the original two-beat rhythm, corrupted in turn by the hymns of the missionaries, Tin Pan Alley's version of the islanders' music and now the modern islanders' version of Tin Pan Alley's faded version.

The hope of Hawaiian statehood has given dreams to many an old tunesmith, probably more wistful than realistic, that with statehood will come a national urge to "go back" with Songwriter W. O. Cogswell "to my little grass shack in Kealahou, Hawaii . . . Where the humuhumunukunukuapua goes swimming by."



FABRICS with colorful print patterns, like these in Honolulu factory, are big Hawaiian business.



TV COMMERCIALS repying mainland themes are repeated in many languages to reach multiracial audience. Japanese actors (*top*) advertise U.S. wares, while Filipinos (*bottom*) promote local beer.

Hawaii CONTINUED



NATIVE SCROLLS, COSTUMES AND CHILDREN ARE USED IN A HIT TELEVISION SHOW FOR THE CHINESE

THEY COPY US AND SOME OF US COPY THEM

Just as the mainland has borrowed Hawaiian music, so the islands have borrowed such evidences of mainland culture as Dixie and jazz (*below*) and television commercials (*left*). In many other ways Hawaiians consider themselves as thoroughly Americanized as mainlanders. Hawaii imports nearly 90% of its commodities from the U.S., including two-thirds

of its food. The long history of U.S. schools in Hawaii, the migration of 32,000 Hawaiians into U.S. forces, including crack Nisei units in World War II and the great influx of tourists helped make this metamorphosis complete. But carefree tourists like Mrs. William Marshall (*right*) find there are also some happy Hawaiian customs that the U.S. should adopt.



IMPORTED HOOPLA to drum up more signers for the statehood petition featured the Dixie cats and three hip Hawaiian girls who strutted through streets in patriotic hats. Parade lasted two hours.

EXPORTED HULA, Hawaii's famous dance, is taught by Puanani Aloia to a tourist Mrs. William Marshall of San Mateo, Calif., who is wearing a Chinese adaptation of Hawaiian *moumou* gown.



THE POLITICAL SCORECARD TODAY

The 1954 political campaign is off to a vituperative start. Senators McCarthy and Jenner are setting the pace, the former with his series of historical lectures entitled "Twenty Years of Treason" (see p. 32); but even responsible Republicans like Governor Dewey and Sherman Adams have been accusing the Democrats of murder, espionage and sadism. What is unusual is not the abusiveness of our political language, but the fact that the Republican epithets have drawn so much Democratic blood. Sam Rayburn himself has asked for quarter, and the President has advised his Republican teammates to watch their tongues.

All of which helps the side-line observer to prepare a scorecard on the real strength of the two parties as they enter this election year. The charge of "treason," punctuated with the names of Hiss, White *et al.*, is the most lethal slogan the Republicans have had since the Bloody Shirt. It is, of course, pretty irrelevant to the real issues before the U.S., if not to the question of which party should be allowed to handle them. But it is the kind of charge that may sail through two or three elections before boomeranging home, or into an empty field.

The Democrats, for their part, have lost the similarly lethal weapon that served them for 16 years. This was the charge that the Republicans would try to repeal the social gains of the New Deal, a charge whose 1952 swan song was *Don't let 'em take it away*. A year in which Republicans-in-office have upheld the essential parts of the Welfare State has killed that potent issue, simultaneously stripping the Fair Dealers of their New Deal ethical pretenses.

Reduced to opportunistic pot shots, the Democrats are still firing from the exposed Trumanite position. The tax reductions favor the rich, the businessmen are taking over the country, McCarthy is a louse, etc. However accurate, such shooting will be really effective

only in the context of a palpable recession. Hence the Democratic preoccupation with the state of business, and the equal and opposite Republican nervousness about "purveyors of doom and gloom."

And that is about the sum of 1954's underlying political realities, as discernible so far. The political mood of the country is more conservative than in many years past. The President himself has told the Republicans, "Don't be afraid to use the word," and indeed it has become so respectable that the Republicans are in some danger of consciously and deliberately becoming the conservative party.

That would be very ill-advised. Neither party can afford to forfeit its right to champion the neglected side of any major American issue, whether that side be the liberal or the conservative. Therein is the real strength of the President's middle-of-the-road stance. It does not (or should not) mean splitting the difference on any controversy, but taking positive action whenever and wherever necessary to keep the whole country on an even keel.

If such action is not taken, the country can lurch pretty quickly into a wholly new political situation. It seems only yesterday that almost every cartoonist's Republican elephant looked like the picture on the opposite page. Or consider the words of Professor Robert E. Fitch in a recent *New Leader*, caricaturing the last big change of national sentiment: instead of "honest labor, pure politicians and impartial professors" arrayed against "'dirty' capitalists," we now have "the clean-minded and public-spirited capitalist arrayed against corrupt politicians, predatory labor leaders and well-meaning but weak-minded professors." When you manage to get a good role in the morality play of American politics, as the Eisenhower team has at the moment, it takes a lot of work, watchfulness and wisdom to keep it.

JULES VERNE STILL HAS A TOMORROW

"Bless my magneto!" ejaculated Tom Swift's eccentric friend Mr. Damon, as Tom raced by in his electric run-about. This is about our speed in science fiction, and it is with mild alarm that we note that Grosset & Dunlap, who once sold 15 million books about Tom Swift, is reviving the old master with a series built around his upstart son, Tom Swift Jr. Seems that kids nowadays, hep to the pseudoscientific jargon of comic books and space-happy TV shows, consider Old Tom, as his publishers do, old hat. "Old Tom," indeed! Before young Tom was even a gleam in beautiful Mary Nestor Swift's eye, his father had invented television, airships and diamond-makers, to say nothing of what came later. He is about as obsolete as Jules Verne.

Jules, if you need reminding, not only imagined the helicopter, rocket, long-range cannon, searchlight, hydroplane, dirigible, submarine, talkies and television a century before their time, but his supermen, like Tom Swift, were modest, good-humored people with a few endearing human frailties, unlike your sober-sided, two-dimensional modern fictional physicist or the half-clad, empty-headed teen-agers who gallivant with him

through interstellar space. We are delighted that Mr. Disney has seen fit to treat Jules Verne with the proper reverence in his new film, *20,000 Leagues Under the Sea*. A few facts and figures will show why this reverence is deserved.

Captain Nemo's *Nautilus*, launched in 1870, was approximately the same size as a modern U.S. Navy submarine. Its speed, 50 mph, was somewhat greater than Admiral Rickover's atomic-powered *Nautilus* and, since its mythical electric engines used no oxygen, it could stay under longer than our ordinary presnorkel subs could. Disney's technicians invented a self-contained diving suit only almost as good as Nemo's. His trip under the South Pole (he didn't know about the Antarctic continent) parallels the proposed voyage which Rickover's *Nautilus* has yet to make under the North Pole. His searchlights could pierce the water 100 feet ahead. We use compressed-air guns to shoot fish under water, but Nemo's electric bullet has yet to be invented. Real life is only beginning to overtake Jules Verne. We had better complete the job before we start calling him old-fashioned—or Tom Swift either!



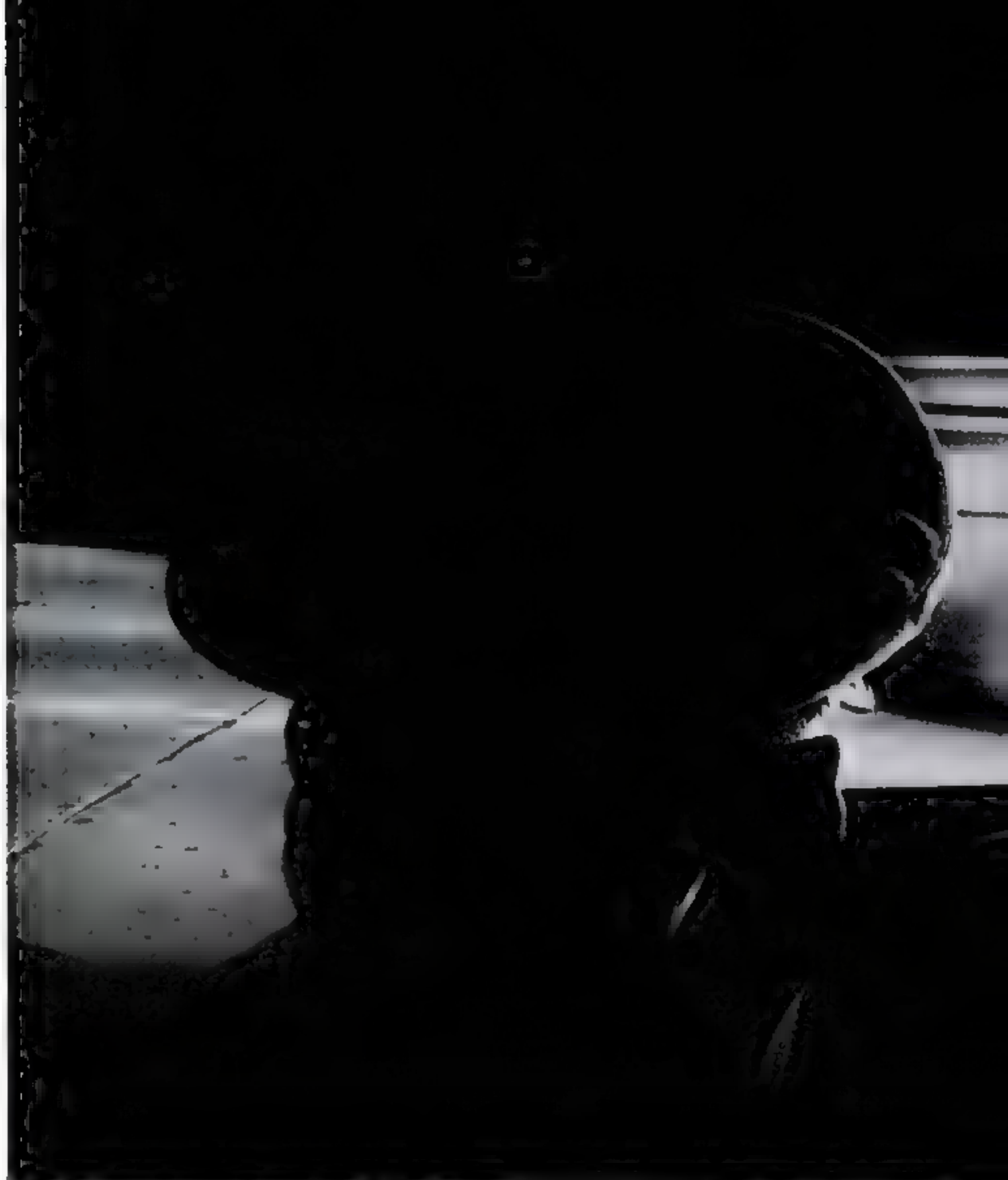
THE MAIN LINE BECOMES ELEPHANT'S GRAVEYARD

Southern Rhodesia's Bulawayo-Victoria Falls railroad skirts a game reserve which shelters some 2,000 elephants. One night recently this elephant was struck by a passing locomotive. Next morning a passenger train came along to find the mammoth roadblock sprawled on the track. For an hour passengers watched as the injured elephant moaned and tried

to get up. A game warden on the train wanted to shoot the animal but had no ammunition. Suddenly the elephant reared with a titanic effort and raised its trunk just as Nicholas Stipinovich, a train passenger, took this picture. Then it collapsed, rolled off the track and died. Nearby tribesmen removed the tail hairs for good luck, then cut up the elephant and ate it.



AIR COP REPORTS MOTORIST TO GROUND COPS



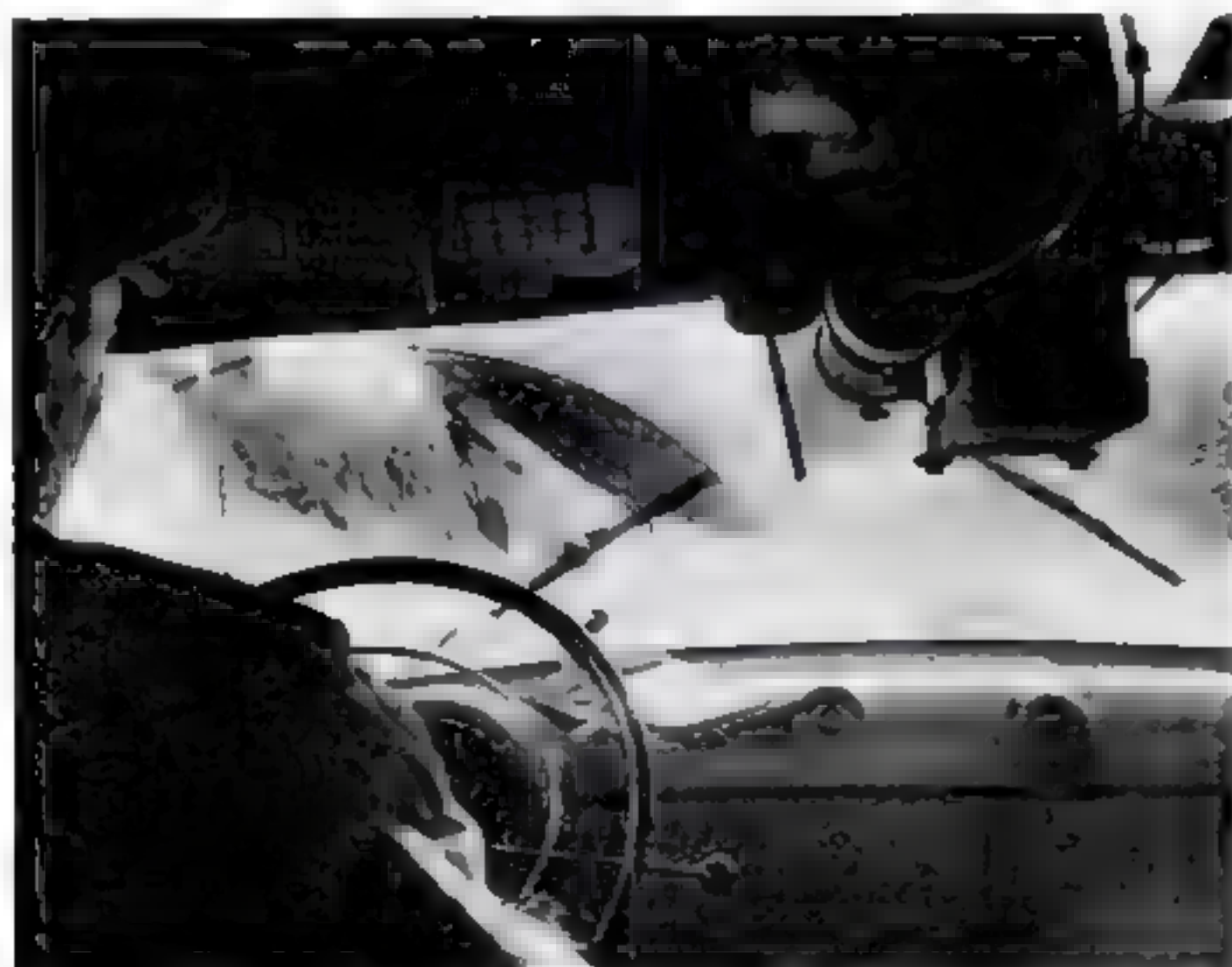
AT NIGHT ON HIGHWAY NEAR EVERETT, WASH., HIDDEN RADAR CLOCKS CAR FLASHING BY AT 70 MPH.

ALL'S FAIR IN SAFETY WAR

State of Washington's no-holds-barred campaign on the highways brings protests which die down when automobile deaths drop 45%

When traffic deaths in the state of Washington soared to a record 61 last October, Governor Arthur B. Langlie decided that he would really get tough with reckless motorists. Proclaiming "open warfare," he launched one of the most dramatic crackdowns on traffic violators yet attempted in the U.S.

Overriding protests from some local officials that the public would consider police tactics



INGENIOUS TRAP for catching lawbreakers is shown in action. Special camera is aimed through

windshield (left picture) of unmarked patrol car. Fired from steering wheel, it takes a picture (right)



of a car passing on a curve. Picture also records time and speedometer reading for court evidence.



SPEEDER WAS CAUGHT WHEN THE POLICEMAN AT LEFT RADIOED AHEAD TO A WAITING PATROL CAR

unfair, the governor ordered enforcement officers to trap violators any way they could. State patrolmen set up hidden radar meters to clock speeders, lurked in unlabeled cars at roadside hide-outs, and used special concealed cameras to record improper driving techniques. Special patrols staged mass spot checks of driving credentials and safety devices. Even helicopters hovered over reckless motorists and reported

them by radio to police cars cruising below.

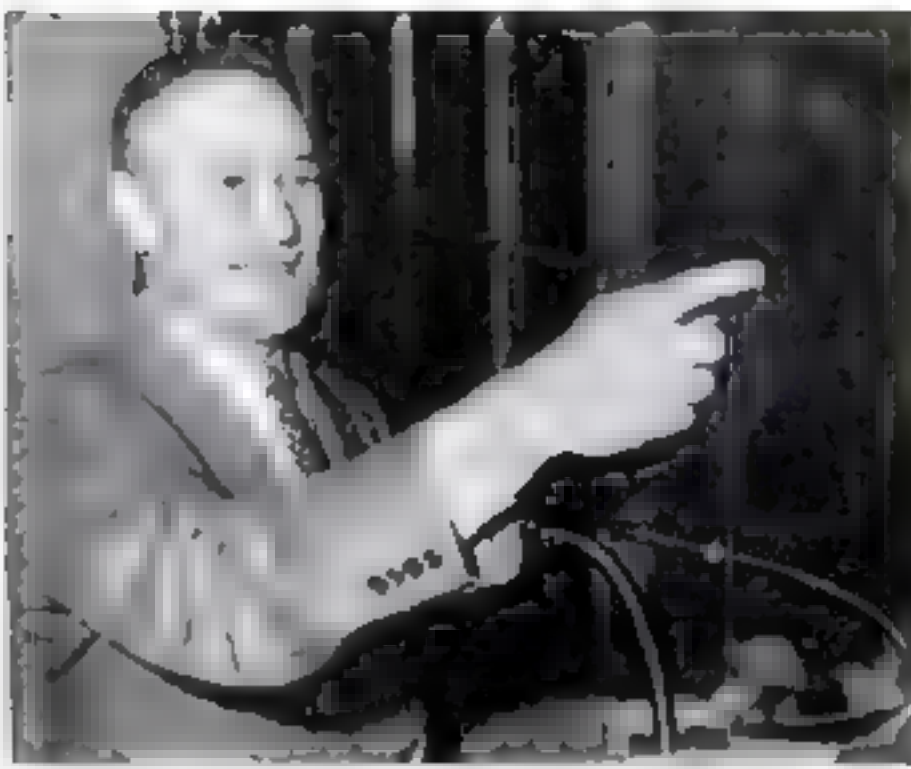
By last week protests had died down. Reason: In three months, while state police had tagged or warned 43,600 lawbreakers, traffic deaths were down 45%, injuries by 1,500 from the same period a year ago. At a White House conference on highway safety set for this week, delegates were expected to study Washington's stern measures as an example for other states.



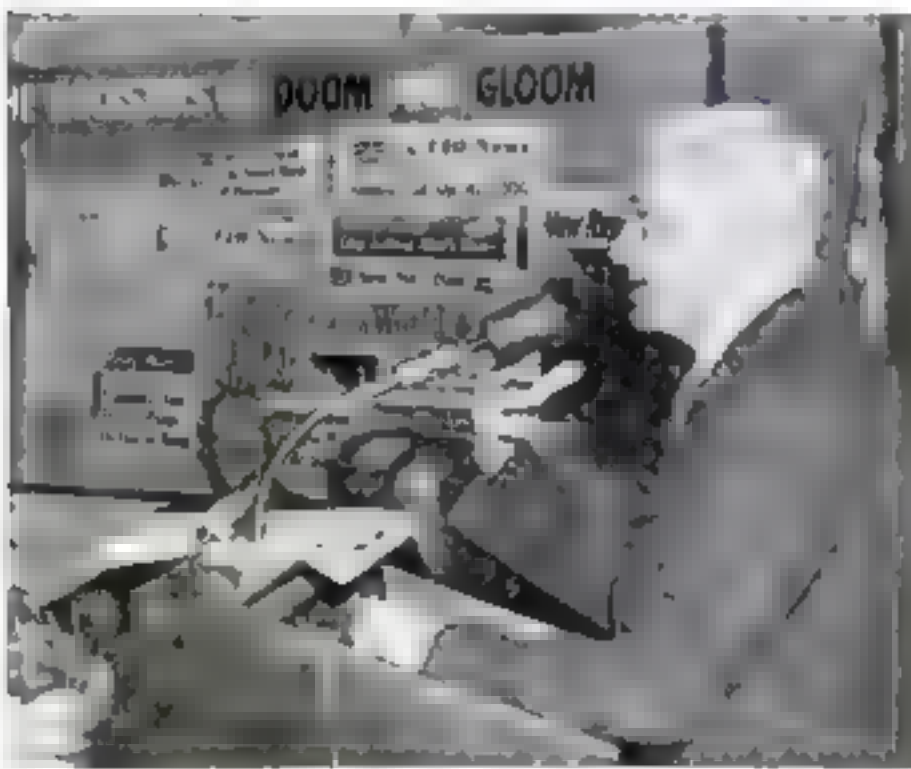
FOUR TICKETS are given to drivers by four patrolmen on busy stretch of highway near Seattle



THE REPUBLICANS DROP SOME BLOCKBUSTERS



SENATOR JENNER said in Indiana, "Fair Dealers and their Communist brain trust . . . ordered our military leaders" to seek a Korean armistice.



SHERMAN ADAMS, Assistant to the President said in Washington speech "Fear Deal" Democrats were trying "to talk this country into depression."



HERBERT BROWNELL, Attorney General, in Boston, quipped: "If this weren't be-kind-to-Democrats week, I might talk about Harry Dexter White."



SCOTT McLEOD, State Department security officer, appeared at G.O.P. dinners. Democrats deplored his activity as a "party huckster canvassing votes."



SENATOR MCCARTHY, with wife Jean sitting behind him, tells a San Mateo, Calif. audience Ike does not want "whitewash." In another speech last

week he said Democratic label is "stitched with the idiocy of a Truman, rotted by the deceit of an Acheson and corrupted by the Red slime of a White."



MCCARTHY AUDIENCE at San Mateo listens to one of his "Twenty Years of Treason" speeches in Fiesta Hall, which is normally used for fairs. Some

6,000 persons paid \$1.50 each to attend. McCarthy was interrupted frequently by scattered applause, but once by a yell, "We've heard all that on TV."

... AND DEMOCRATS CRY FOUL TO EISENHOWER

President asks for moderation as the political year gets hot

Last week the President of the U.S. 1) laid a wreath at Lincoln Memorial in Washington (right) and 2) echoed the famous sentiment of that president by pleading, in effect, for less malice and more charity in politics. He was attempting to quiet Democratic fury aroused by Republican attacks such as those delivered by the men on the opposite page. Senators McCarthy and Jenner outdid each other in vituperation, the latter charging that the Democrats deliberately tried to lose the Korean war.

Used to extreme attacks from extremists, the Democrats were more particularly riled when Assistant to the President Sherman Adams charged them with being "political sadists." Such statements, thundered Minority Leader Sam Rayburn, were "untrue, they are dastardly. The backs of some of us are getting pretty sore. . . . There is one man in the United States who can stop that kind of talk."

At his press conference two days later the President said the times were too serious and counseled his own executive family not to engage in extreme partisanship. Some other Republicans also heeded him. In Brooklyn, Senator Ferguson threw away a speech charging the Democrats with "trading the lifeblood of American youth for a wartime economy" and substituted one talking about G.O.P. progress.

Republicans, whose own backs were still sore from New Deal charges of "economic royalists," "vestal virgins" and "intellectual Dillingers," said privately that the Democrats were "crybabies." Senators McCarthy and Jenner continued on their own way. Asked if he would change tactics, McCarthy replied, "The price is too high." The truth about the hubbub was perhaps stated best by a Democrat, Senator George of Georgia, who said, "The people think that the President can control the politicians. He can't." In short: 1954, a campaign year, had started. (See editorial, p. 28).



PRESIDENT EISENHOWER lays wreath of red, white and blue carnations at Lincoln Memorial in Washington. In peace gesture, Sons of Confederate

Veterans sent representatives for the first time to the annual Lincoln's Birthday ceremony. The President's greeting: "I am glad to see the Rebels here."



SENATOR SYMINGTON said the "rat-alley partisan approach" of the G.O.P. was affecting U.S. security.



WOUNDED LEADERS, Johnson (left) of Senate and Rayburn, said the attacks might harm Ike's program.



VICE PRESIDENT NIXON, in a speech at Oakland, Calif., followed Eisenhower's lead and advised Republicans to "avoid indiscriminate attacks" on Democrats. Many, he said, "were just as fed up with Trumanism as we were in 1952."



A LINE OF CANDIDATES are led in pledging allegiance to flag by Miss Bertha Palmer, former North Dakota school superintendent. The candidates are, from left to right, Herbert F. Geisler (with

Seung Lee dog), Edward Hayes, James Keim (wearing glasses) and Denson Watson. They all spoke at joint meeting in Wheaton sponsored by the Women's Republican Club and the Young Republicans.

Politics CONTINUED



EDGAR M. ELBERT



JOSEPH MEEK



LAR DALEY



JOHN B. CRANE



AUSTIN L. WYMAN



PARK LIVINGSTON



DOUGLAS FIGHTS BACK in Gillespie, where he reiterates Democratic charge that recession is

coming. "The unemployed are beginning to show up. . . . The farm equipment industry is in trouble."

TEN TRY FOR CHANCE TO REPLACE DOUGLAS

As the burgeoning 1954 political campaign got hot, the hottest spot was in politically sensitive Illinois. There 10 Republican candidates have filed for the chance to unseat Democratic Senator Paul Douglas. They range politically from progressive Eisenhower Republicans to rabid reactionaries.

There are reasons for this rush to tilt with Douglas. The Republican hopefuls think he is vulnerable as a "superinternationalist" and a "superliberal." They know, too, that the G.O.P. will put a lot of weight behind the primary winner. Young Governor William Stratton, who holds the patronage and political whip hand, will give all his support, and Douglas' opponent will also get the help of two Midwest G.O.P. senators, glib-tongued Everett Dirksen and sharp-tongued Joe McCarthy. So the 10 are lashing out at Douglas. Their target, who ran ahead of Truman in '48, is fighting hard already (left), holding "coffee hours" and addressing as many as 20,000 people in one week.

Soup 'n' Crackers

... a perfect pair!

Zestful, delicious Campbell's Tomato Soup... Crisp, flaky crackers... Mmm, good!

Does it *taste* as good as it *looks*—this combination of Campbell's Tomato Soup and crisp crackers? Even *better*, say we! The flavor of fresh, flaky crackers contrasts perfectly with this velvet-smooth soup... a rich purée of plump, red-ripe tomatoes blended with fine table butter and seasoned according to Campbell's *wonderful* recipe!

Campbell's
TOMATO SOUP





Make a change for the better!

- ★ Better flavor
- ★ Better quality
- ★ Better for your budget

Ask for **Paul Jones**

FRANKFORT DISTILLERS CORP., N. Y. C., BLENDED WHISKEY. 86 PROOF. 72% GRAIN NEUTRAL SPIRITS



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FUND RAISING TAKES TO AIR

Balloons aid Radio Free Europe

On the morning of Feb. 12 in Springfield, Ill. Boy and Girl Scouts marched into Lincoln Square and released 2,000 helium-filled balloons—relicas of the famous "freedom balloons" which have been used to carry democracy's messages over the Iron Curtain. The balloon barrage was the largest of 540 sponsored all across the U.S. by the Fraternal Order of Eagles. By floating a total of 5,000 balloons, they hoped to help the Crusade for Freedom raise \$10 million for its Radio Free Europe broadcasts to Russian-occupied countries.

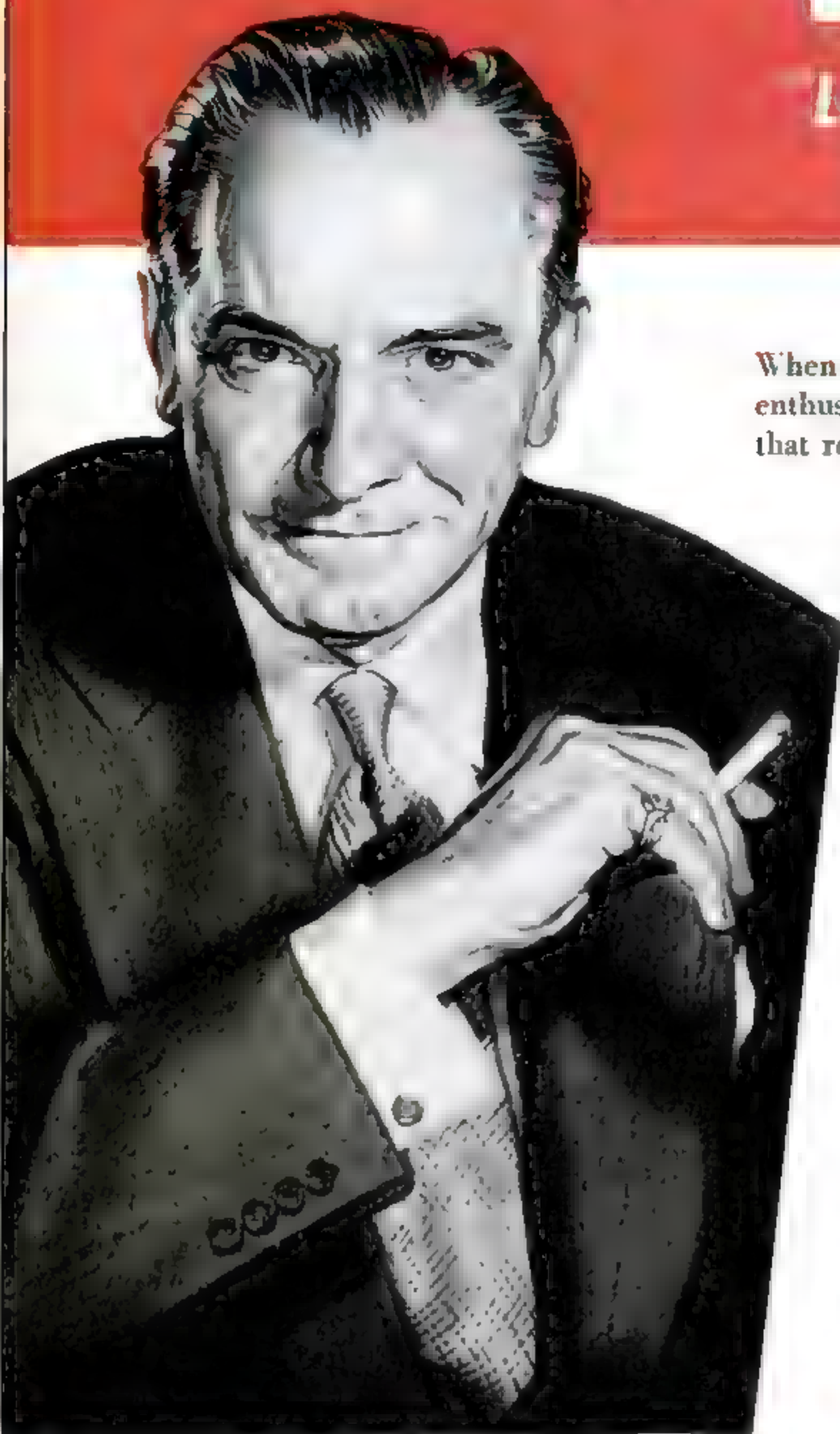
The plastic bags, most of which were pillow-shaped, were designed to go 30,000 feet high and travel as far as 700 miles. Each contained an invitation for the finder to donate a "truth dollar" to the crusade, 12 envelopes for him to distribute to other prospective contributors, and a request that he report the date and place of his find. The 2,000 balloons that went aloft from Lincoln Square, when last seen, were floating northeast at an estimated 50 mph.

← **PARADING BALLOONS** are taken by scouts to launching point. In background is the state capitol.

Fredric March says...

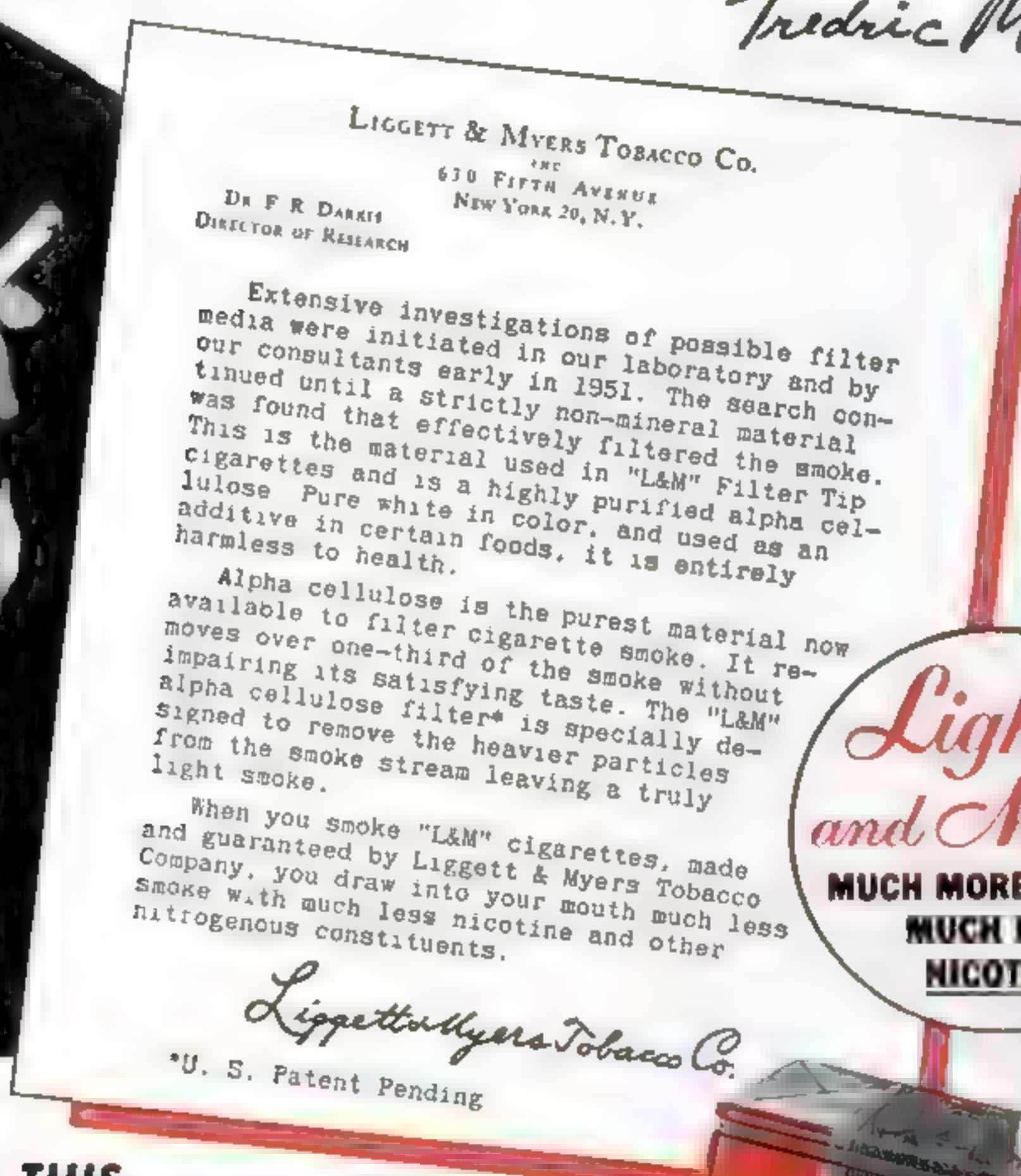
THIS IS IT

L&M FILTERS ARE JUST WHAT THE DOCTOR ORDERED!



When I read Dr. Darkis' letter I tried L&M Filters. I'm really enthusiastic about them. They're a wonderful smoke—with a filter that really does the job. I'm sure you'll like them as much as I do.

Fredric March



*Light
and Mild*
**MUCH MORE FLAVOR
MUCH LESS
NICOTINE**

ONLY L&M FILTERS GIVE YOU ALL THIS...

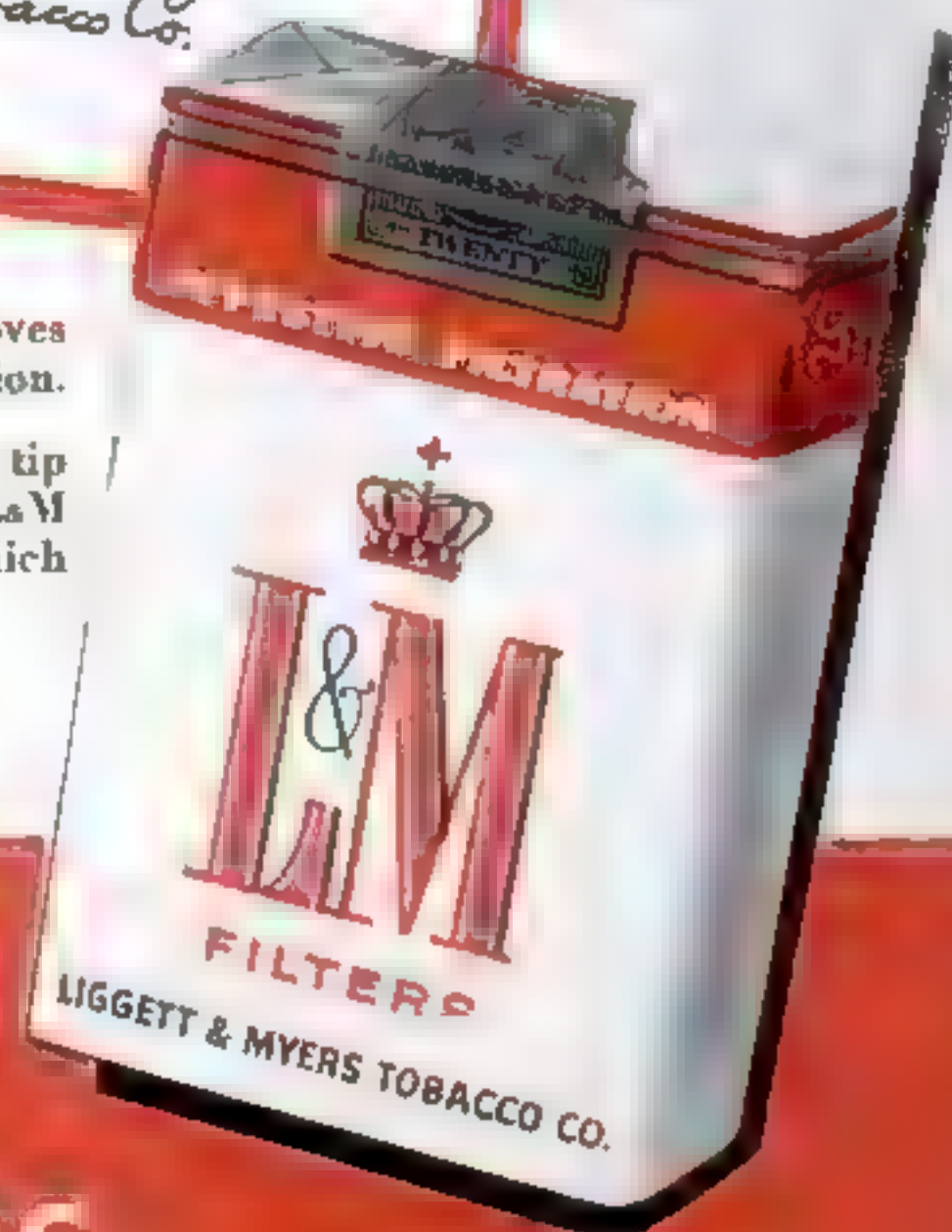
1. **Effective Filtration, from a Strictly Non-Mineral Filter Material—Alpha Cellulose.** Exclusive to L&M Filters, and entirely pure and harmless to health.
2. **Selective Filtration—the L&M Filter** selects and removes the heavy particles, leaving you a light and mild smoke.

3. **Much Less Nicotine—the L&M Filter*** removes one-third of the smoke, leaves you all the satisfaction.
4. **Much More Flavor and Aroma.** At last a filter tip cigarette with plenty of good taste. Reason—L&M Filters' premium quality tobaccos, a blend which includes special aromatic types.

*U. S. Patent Pending



FILTER TIP Cigarettes





SURROUNDED BY FLAPPERS OF THE 1920s, MAXWELL BODENHEIM READS FROM ONE OF HIS BOOKS

A MURDER IN BOHEMIA

Bard of Greenwich Village dies after a sodden and frustrated life

The New York City police last week arrested a wild-talking, scar-faced vagabond named Harold Weinberg for the murder of a drunken old man and his wife in a slum rooming house. It was a sordid and common type of crime



RUTH BODENHEIM

and it might have been ignored by city editors except for one fact: the old man was the poet and novelist, Maxwell Bodenheim, a bright and colorful figure in Greenwich Village during the fabulous '20s. When word of his death spread, both his first wife in New York and his old friend Ben Hecht in California expressed the same thought: who, possibly, could have wanted to kill poor, harmless Max?

Once, practically anyone might have had the idea. An old friend drew this picture of him: He seldom bathed. He was arrogant and contemptuous. At parties he drank Worcestershire sauce out of the bottle, consumed whole buffet suppers before the other guests could reach them, then got roaring drunk and made passes at the women. In departing he sometimes took along a few overcoats which he pawned. All this, naturally, brought slaps from women and punches in the nose from men.

Bodenheim, born in Natchez, Miss., had little schooling and served in the Army. He came to New York in the '20s already famous. He was author of a highly praised book of verse, *Minna and Myself*, and had been a leader with Ben Hecht, Carl Sandburg and Edgar Lee Masters in the literary rebellion of Chicago

imagists. He personified the avant-garde. He was young and slim with sandy red hair and pale, hateful blue eyes, and women jammed tiny candlelit rooms in the Village when he gave readings of his poems. They followed him everywhere, to the sands of Cape Cod and tenements of New York. Two of them committed suicide when he turned away from them; one attempted it; a fourth, carrying several of his letters, was killed in a subway crash. He married three.

He worked hard, writing 10 books of verse and 14 novels. Some of the novels, *Naked on Roller Skates*, *Ninth Avenue*, *Replenishing Jessica*, were best sellers. They were not good books but they contained passages which kept many critics hoping that he would one day produce a great work. He made enough money to buy a few sunny summers on Cape Cod, but not much more, because he sold away most of his rights for drinks. "He was," wrote Ben Hecht, "the only poet I ever knew who lived only in the land of poetry and recognized words as the only riches there were."

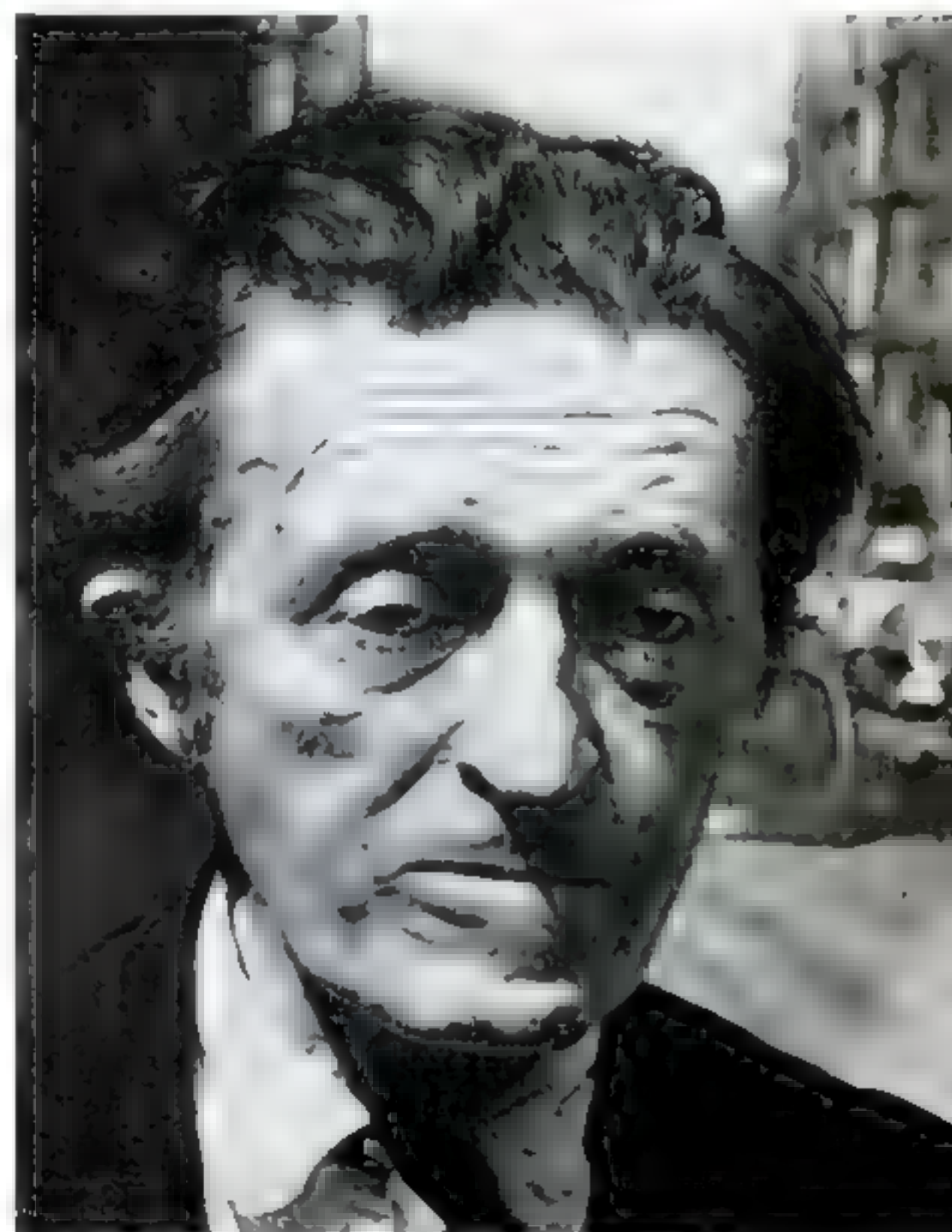
During the last years Max Bodenheim and his third wife, Ruth, who sometimes beat him for his sins, cadged drinks in bars, went hungry and homeless. They had a bottle of wine but no place to sleep when they met Weinberg that night. He had a room. They went home with him. At last week's end Weinberg, veteran of a mental hospital, was taking a sanity test before being charged with their murder.



WEINBERG



AS TOAST TO DEAD friend Jake Spencer pours beer on floor of Bodenheim's favorite Village bar.



RECENT PORTRAIT shows Bodenheim as he is remembered by present-day residents of the Village.



GRAVESIDE MOURNERS, from left, are writer's son, first wife, undertaker and an artist friend.

LIFE ON THE NEWSFRONTS OF THE WORLD

Austria gets a Molotov 'nyet,' the big battle for the 'Century' begins, and a Tammany tiger is honored

Austria's Foreign Minister Leopold Figl went to the Big Four Berlin conference to plead for his country's freedom. But Soviet Foreign Minister Molotov was unmoved. Russia would sign a peace treaty with Austria, Molotov said, only if Soviet troops were allowed to occupy Austria until the question of Germany was decided. He had already made clear that the only terms Russia would agree to for a German settlement would mean 1) abandonment of free elections, 2) dissolution of NATO, 3) removal of U.S. troops from Europe and 4) a "security" pact between Russia and other European countries to replace NATO and EDC. Since these terms were not acceptable to the West, it seemed that—unless there were a sudden turn for the better—the Big Four conference would dwindle to an end, leaving nothing but memories of the pomp which had surrounded the meetings of the four ministers (pp. 58, 59).



DULLES, EDEN, FIGL AND BIDAULT CONFER

Representative Ernest K. Bramblett was convicted in federal court of padding his office payroll to collect "kick-backs" from nonworking "staff members." The California Republican could be sentenced to a maximum of 35 years in jail plus \$70,000 in fines and would automatically lose his House seat at the same time. Pending an appeal, he will continue to sit in Congress.

A 'bare-fisted' fight

Wall Street's railroad war—a battle for control of the New York Central Railroad, including its crack train, the *Twentieth Century Limited*—got off to a flying start. The road's officials had flatly rejected Financier Robert R. Young's demand that he be made boss of the road after he had quietly acquired a chunk of Central's stock (LIFE, Feb. 8). Young then declared he would win by buying more stock and getting other shareholders to vote him control at the next stockholders' meeting in May.

Central's officers said they would round up votes too. "If Young intends to start a battle it will be bare-fisted," said Central President William White. "I'm neither a pushover nor a punching bag." In the next two days the stock—which had been selling at \$23—jumped to \$25.12, and 300,500 shares changed hands.

Rita Karen Olsen, a 23-year old beauty from Yorktown Heights, N.Y., had gone down to Costa Rica merely to take a postgraduate course in sociology. But she wound up last week as that Central American country's first lady, by marrying President José Figueres. The president was educated at M.I.T., married an Alabama lady in 1942, was divorced from her last year.

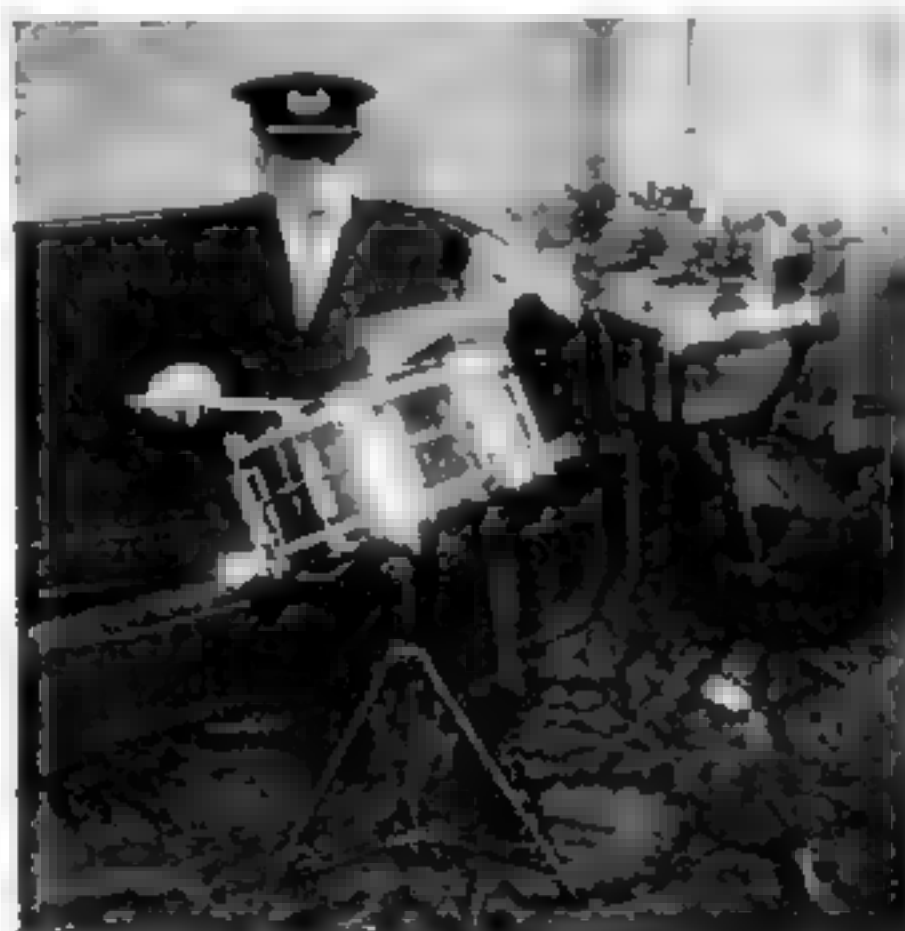
Reward for a German's surrender

Harry Girth, a German soldier who escaped from a Fort Dix PW compound in 1946 and for seven years successfully posed as Henry Kolmar, interior decorator, re-entered the U.S. last week as a free man. He was allowed to leave the country last June after his American fiancée's brother persuaded him to give up to police. His sweetheart married him before he left, thus making him eligible for legal re-entry—and possible naturalization—after a waiting period.

The Pope's health was improving last week. He was able to sit up and walked a few steps around the Apostolic Palace. But he was not expected to be strong enough for his official duties for weeks to come.

Last vet of the G.A.R. reaches 107

It had been 90 years since Albert Woolson marched off to join the Union Army as drummer boy, but last week he celebrated his 107th birthday by getting up at his customary 6:15 a.m., entertaining dozens of relatives, neighbors and reporters, and receiving thousands of letters including one from President Eisenhower. He sang old Civil War songs for the crowd, coaxed a sound from a bugle and kissed several women guests. Reminiscing, he said: "It seems sad, all those friends gone. It's hard to realize, of all those two and a half million men I am the only one left. . . . But don't count me out yet, I'm going to be around for three or four of these birthdays." Then old Drummer Woolson, last remaining G.A.R. vet, tapped out an accurate roll on a drum (below).



OLDEST DRUMMER DISPLAYS HIS ROLL



F. D. R. JR. GREETES WINNER DeSAPIO

Tammany boss gets a national post

New life was breathed into the political "tigers" of Tammany Hall when their leader, Carmine DeSapio, was elected to the Democratic National Committee, filling the vacancy left by the death of Ed Flynn. His election was recognition of his ability to pick winning candidates, notably New York City's new mayor, Robert Wagner. On hand to congratulate the new committeeman was a Democrat whom DeSapio favored as future New York governor: Franklin D. Roosevelt Jr. (above).

Mrs. Oona O'Neill Chaplin, daughter of the late Playwright Eugene O'Neill and the wife of Charles Chaplin, renounced her U.S. citizenship and hereafter will be a British citizen like her husband. The news broke at a London airport when Charlie asked his wife if she had her passport. Mrs. Chaplin flourished a new gold-and-blue British passport and commented, "Isn't it lovely. Isn't it just cute?"

A flying crossbreed

McDonnell Aircraft Corporation let it be known that it had developed the XV-1 Convertiplane, a helicopter-airplane crossbreed. It is designed so that a helicopter rotor lifts it vertically into the air, then idles while a pusher-prop powers it for fast, horizontal flight. The first flight tests of the hybrid craft are not scheduled to be held until May, but its designers hope it will side-step the need for runways without losing as much speed and efficiency as helicopters do, thus making it an ideal aerial taxi or military hedgehopper.

The Air Force appointed a board of generals to decide what, if anything, should be done with PWs who succumbed to Red brain-washing and betrayed fellow prisoners or confessed to germ warfare. The generals, whose names are being kept secret to avoid publicity, will hear each case individually and will call on civilian experts in law and medicine for advice. First expert to be called: Dr. Charles Mayo of the famous Mayo Clinic.

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Don't wait for hot weather. Get all the facts now.

Only RCA gives you all these advantages:

(they mean better air conditioning)

PUSH-BUTTON CONTROLS: Just push a button in the Climate Tuner to "tune in" the weather you want.

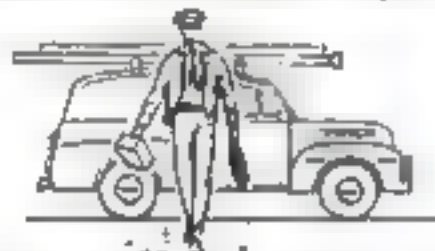
THERMOSTATS: Provide automatic temperature control at all times.

"HEART-OF-GOLD" COMPRESSOR: Provides top cooling capacity. Hermetically sealed for long, trouble-free performance. Five-year warranty.

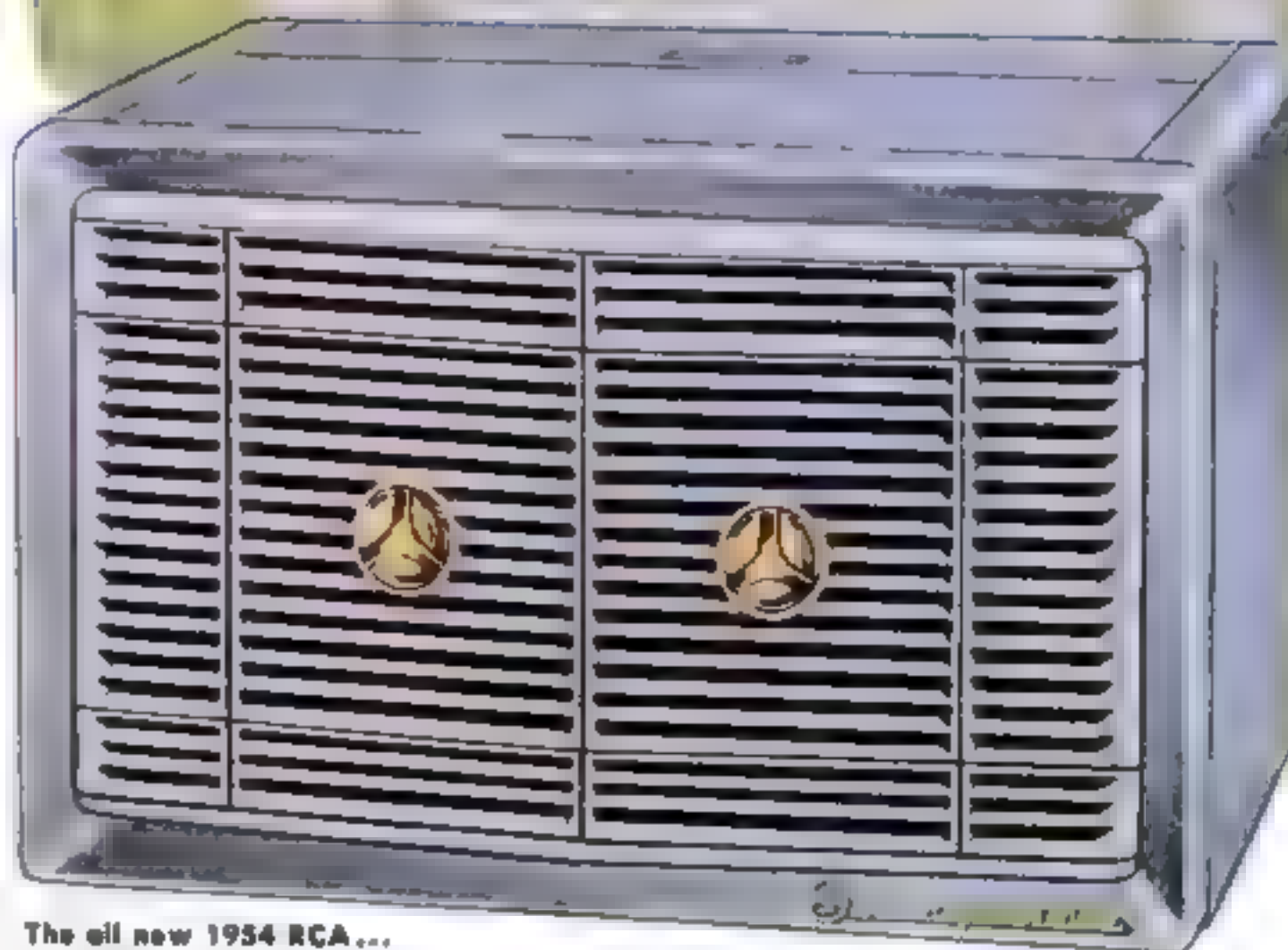
HUSH-A-BYE FANS: Whisper-quiet squirrel cage type evaporator fans so quiet you scarcely hear them.

PERMANENT FILTER: Aluminum filters, easily cleaned, do away with annoying replacements.

PANEL LIGHT: Available on some models for easy visibility at night.



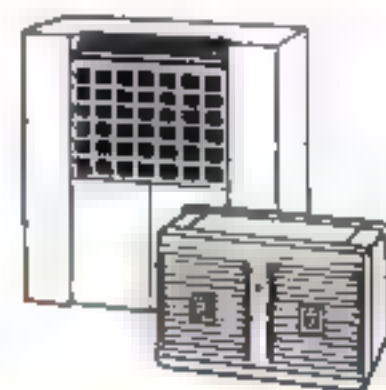
INSTALLATION AND SERVICE: Optional contract offers installation and service by RCA's own technicians.



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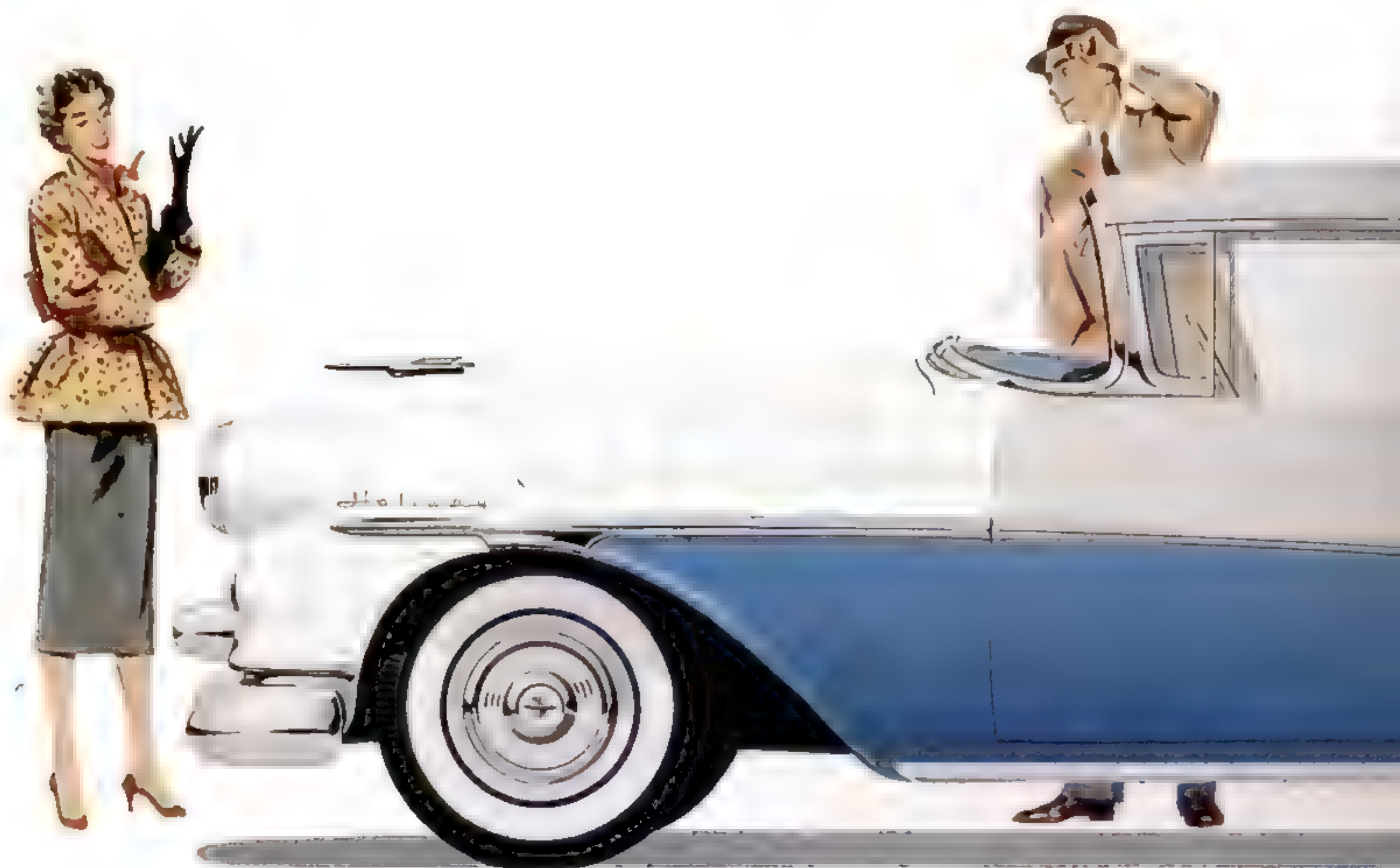
Send me your free book "Your Health, Your Income, Your Family, Your Happiness and Air Conditioning" with more facts about weather and air conditioning; pictures of RCA Air Conditioners; instructions for year 'round use.

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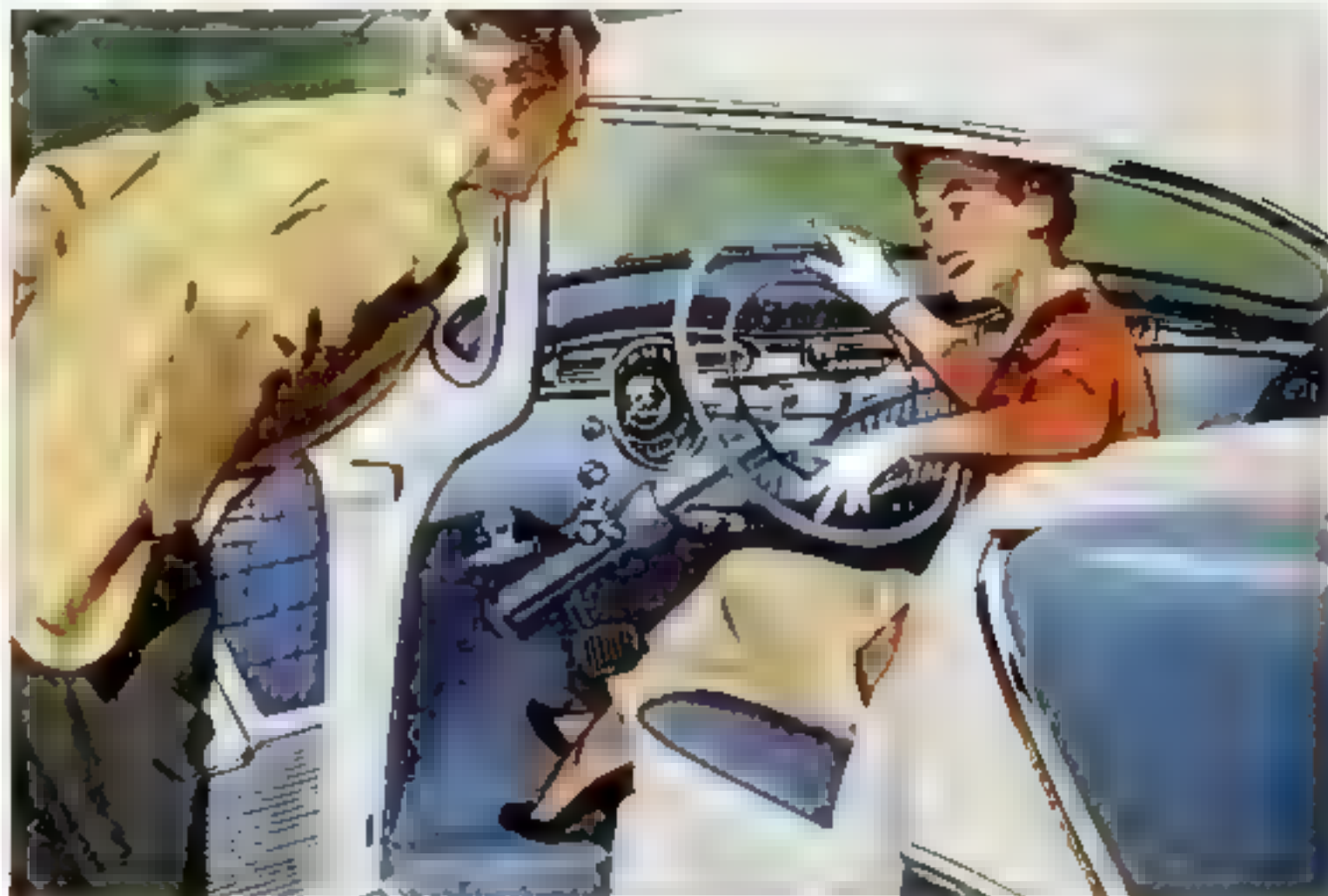
THE CLASSIC NINETY-EIGHT



OLDSMOBILE



Lite, low rear deck . . . smooth-flowing, sweep-cut fenders and doors accentuate the sporting flair of the new Ninety-Eight. Now the driver can see all four fenders for easier parking and safer driving.



Deep foam rubber Custom-Lounge Cushions, Safety-Padded Instrument Panel, Hand Brake Signal Light and Front Compartment Courtesy light are now standard equipment on all 1954 Deluxe Ninety-Eights.

FOR 1954

More than any model before it, this new "Ninety-Eight" for 1954 expresses Oldsmobile's forward looking and forward thinking. It's Oldsmobile's dream car—the pinnacle toward which Oldsmobile stylists and engineers have been working since the introduction of the "Rocket" Engine. You'll know it as a car of the future by its distinctive panoramic windshield, and the long, low, forward look. And, you'll discover even greater power in the world-famous "Rocket" Engine—185 horsepower and 8.25-to-1 compression ratio. Optional features are Safety Power Steering*, new Power Brakes* and new 4-Way Power Seat Control*. See it now—this ultimate in "Rockets", the magnificent "Ninety-Eight" for 1954—at your Oldsmobile dealer's.

*Optional at extra cost.



Ninety-Eight DeLuxe Holiday Coupé. White sidewall tires optional at extra cost. A General Motors Value.

ILE

WITH NEW WORLD'S RECORD "ROCKET"

Fancy-pants Hamburgers!

Stuff 'em with cheese

cook 'em with



The Kettle-simmered
cooking sauce

**Hunt's Fancy-pants
Hamburgers**

You never tasted such wonderful hamburgers.

Men love them youngsters, too. And they're easy to prepare. Get some of that extra-flavorful Hunt's Tomato Sauce—only a few pennies a can—and serve Fancy-pants Hamburgers real soon.

1 lb. chopped beef

4 slices (1/4 lb.) sharp American cheese

On iron skillet heat four potato slices and burger cakes. On four of these, place slices of cheese, leaving a little meat uncovered around the edge. Top with the remaining cakes and potato slices together to make one "patty." Bake on a greasy frying pan and sprinkle over the bottom sauce.

Plain salt and 1/4 tsp. garlic salt (optional)

On each slice, cover the potato half with 1/2 tsp. salt. Turn patties. Heat pan very hot. Place stuffed hamburgers on salt. Brown one side. Turn, brown other side. Lower heat and cook 10 min. with.

1 can Hunt's Tomato Sauce

Spoon tomato sauce on sizzling hot. Serve at once, with the delicious sauce from the pan ladled over them. What a wonderful feast for your people!

Hunt's extra-flavorful because it's the Kettle-simmered cooking sauce. Made only from red ripe fresh tomatoes, seasoned with salt. And it costs you just a few pennies a can. Use Hunt's in stews, soups, meat loaf, spaghetti, and casseroles. Look for Hunt's red label at your market.

Hunt-for the best

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HUNT'S HEAVENLY PEACHES

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down-
to-earth
prices!



ON PICTURE OF STEAMBOAT ROCK, MOST PROMINENT LANDMARK IN ECHO PARK, DOTTED LINES SHOW CONFLICTING WATER LINE IF THE DAM WERE BUILT

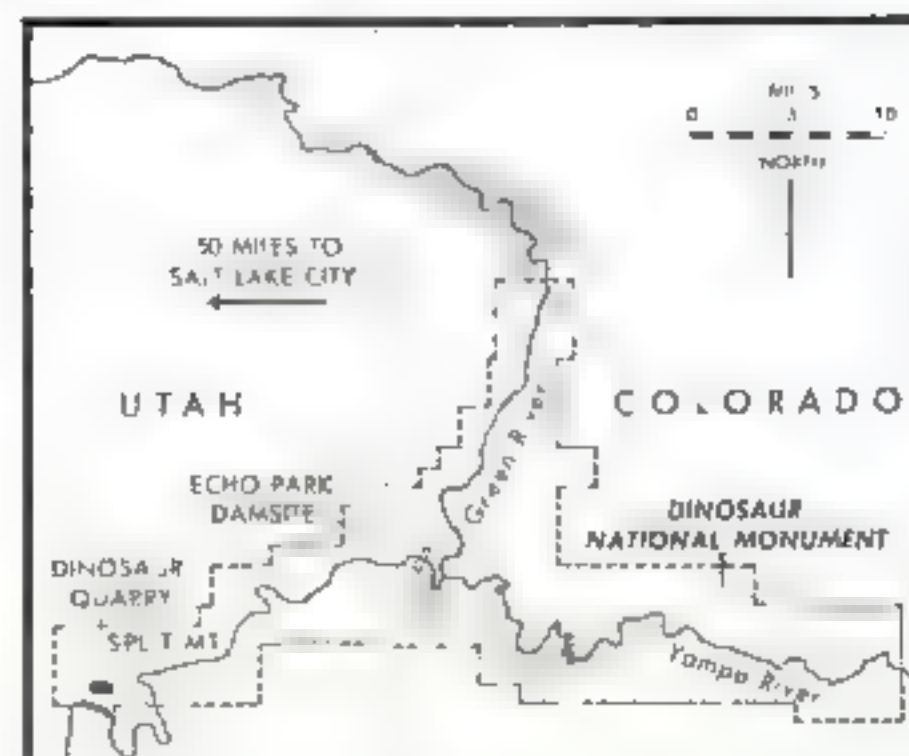
SOUNDS OF ANGUISH FROM ECHO PARK

Nature lovers and Bureau of Reclamation argue over a dam and even how high the water would rise

To many conservationists throughout the U.S., massive Steamboat Rock (above) symbolizes a controversy of massive proportions. Towering over Echo Park, Colo., at the confluence of the Green and Yampa rivers, it marks the place selected by the U.S. Bureau of Reclamation for a \$176,126,000 dam. But Echo Park is a part of Dinosaur National Monument, an unspoiled wonderland which the conservationists aim to preserve. A big dam, they argue, would flood the beautiful bottom lands, submerge much of the colorful canyon wall and leave the visible stone surface scarred by a fluctuating water line. But of even greater concern to them is the principle of "invasion" involved. Encroachment upon one national monument could, they fear, jeopardize the entire national park system.

Reclamation engineers, however, eye the dam site mainly for its economic advantages. The Echo Park area, they point out, would catch the flow of two rivers and provide needed power and water most economically to potential users in Utah, Wyoming and Colorado. To bolster their practical arguments, they claim the artificial lakes would make the park more accessible to nature lovers.

This month, after long debate, the opposing factions were awaiting a congressional committee's recommendation on Echo Park's fate. That the committee would not have an easy time of it is indicated by the sharply conflicting claims. On even so basic a question as how high the dammed water would rise on Steamboat Rock, the parties were at least 200 feet apart.



FLOODED AREA (shaded) shows 43,000 acres, many of which conservationists argue would be lost.

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Millions of men are finding they feel better, work safer when they're *dressed right* in Lee Clothes. Sanforized, close-woven, tough, trim and comfortable . . . Lee Clothes are tops on the job. Wonderful "around home" togs, too! All-family selection at your dealer's.



Lee Dungarees of super-strong Jelt Denim are long wearing, comfortable, good looking. Buy them in your exact size . . . they stay your size through countless washings. No dangerous turned-up cuffs and baggy legs. Zipper fly, convenient safe tool pockets.



Lee Union-Alls, the original one-piece work suit, have a Bi-swing back to reduce the strain of reaching and bending. Made in short, medium and long body and sleeve lengths to provide a perfect fit for men of every build.

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Lee Matched Shirts and Pants of close-woven Chetopa Twill fit like fine dress clothes, yet give you the freedom of action you need for safety at work. Popular Fade-Proof colors. Look for the Lee label on *all* your work and play clothes!

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Ten factories coast to coast

Anguish in Echo Park CONTINUED



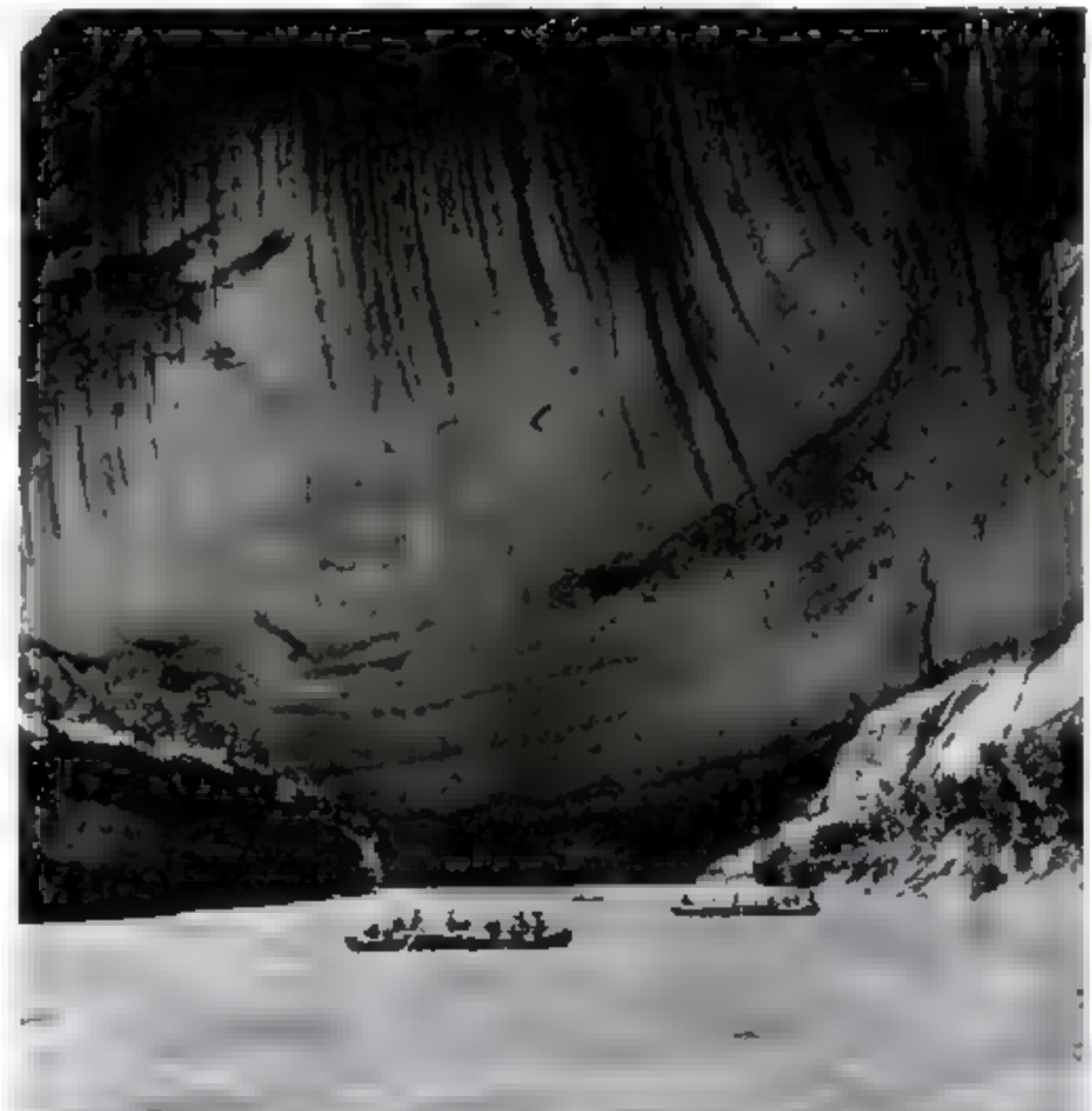
SITE FOR DAM picked by Reclamation Bureau is in deep Green River canyon. Dam would be 525 feet high, 920 feet long and 30 feet thick at the top.



ANTIDAM testimony is given to congressmen by Ulvases Grant III.



PRODAM arguments are given by Reclamation's Ernest Olie Larson.



SIGHTS FOR TOURISTS, like this mineral-streaked canyon wall along the Yampa River, dam opponents contend would be largely spoiled by a new lake.

See what a G-E Upright Freezer will do for your family!



Save on food bills!

Many G-E Freezer owners say they save \$120 and more each year on food bills by buying foods in season when prices are low.



Shop only when you want to!

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All meals are easier to prepare!

Your G-E Food Freezer saves you time and energy—lets you live so much better. And there's no last-minute preparation of food.

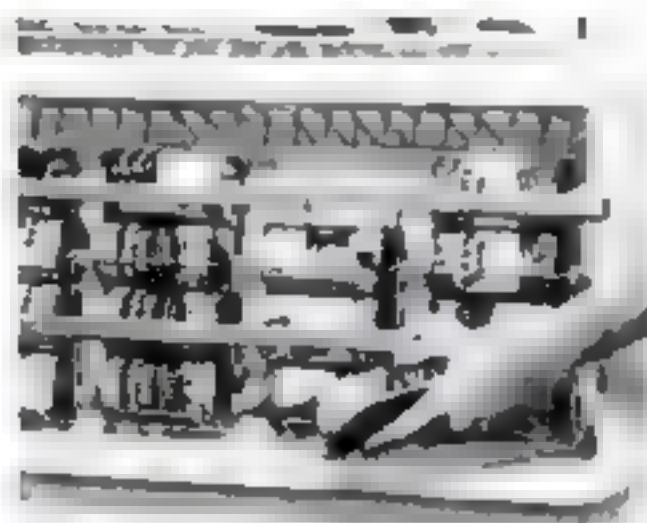


Holds 525 pounds! Yet this new 15-cubic-foot G-E Upright Freezer takes less than one square yard of floor area. Price \$519.95.

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WEEKLY

So very dependable, too! Every G-E Freezer has the same type of sealed-in refrigerating mechanism that has kept 3,500,000 G-E Refrigerators operating so efficiently for periods of 10 years or longer. General Electric Company, Appliance Park, Louisville, Ky.

Only General Electric gives you all these new, exciting conveniences and fingertip advantages!



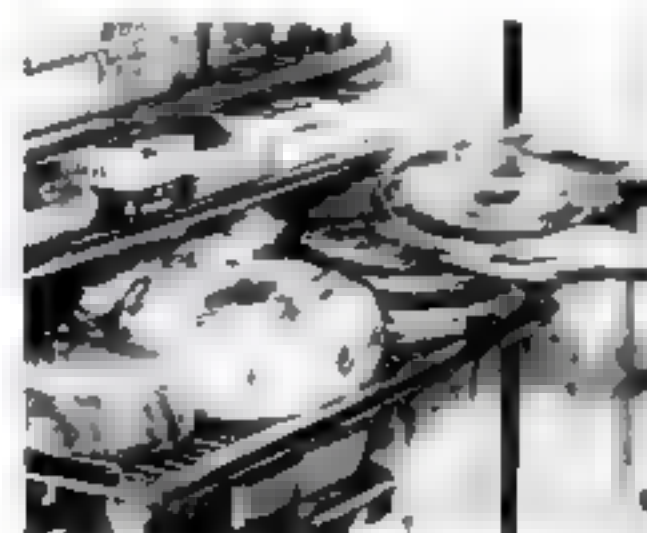
Fruit juice at your fingertips!

New frozen juice dispenser keeps 16 cans of frozen fruit juice within easy reach.



Ice cream ready for serving!

Special Ice Cream Conditioner keeps a gallon and a half of ice cream at scooping temperature.



Handy, sliding shelves!

Adjustable, sliding shelves glide out, making it easier to reach things at back of freezer.



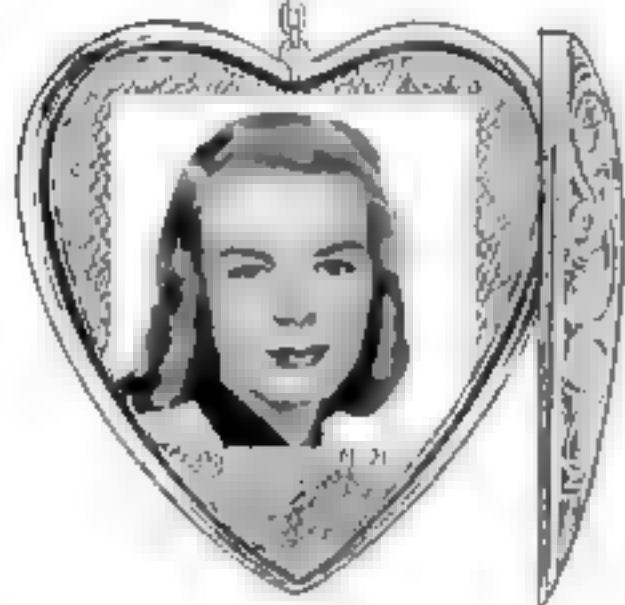
A place for bulky packages!

A hidden Stor-well at the bottom of the freezer holds bulky items such as hams and turkeys.

*After small down payment. See your G-E dealer for exact terms. Prices and specifications subject to change without notice. Choose from a complete line of upright and chest models. Prices begin at only \$299.95.

GENERAL  ELECTRIC

the girl
you used
to be...



what would she think
of you today?

She looks out at the world through older, wiser eyes... that girl who once was you. Would she approve the way you look at things, or would she miss the fresh enthusiasm that was so much a part of her make-up? Ask yourself the question she would ask: Do you still have a "young" viewpoint?

Part of feeling young is a willingness to accept new ideas. Perhaps that's why so many young people have turned to the new idea in sanitary protection: Tampax*. Because Tampax is worn internally, it avoids many of the discomforts of "those days"—chafing, irritation, the whole bulky belt-pin-pad harness, and odor.

Doctor-invented Tampax is so comfortable the wearer can't even feel its presence. It's easy to dispose of. Can be worn in shower or tub. The Tampax package never betrays your secret. In fact, it's so small a month's supply slips into purse. Get your choice of 3 absorbencies (Regular, Super, Junior) at any drug or notion counter. Look for Tampax Vendor in restrooms throughout the United States. Tampax Incorporated, Palmer, Mass.

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WEARING PLASTIC GOGGLES, THE PRESIDENT (LEFT) AND INTERPRETER WATCH METAL-POURING AT INLAND STEEL.

TOURIST FROM TURKEY

The first president of Turkey ever to visit the U.S., Celal Bayar, was traveling in the West last week. His American grand tour began with a stop at Washington to address Congress and went on through steel mills, a tractor plant, a jeep factory and an art gallery to the scenic grandeur of the Pacific coast. Because there are not many immigrant Turks in the U.S.,

their historic enemies, the Greeks, obligingly turned out everywhere to cheer President Bayar lustily. With everyone he left behind an impression that the "terrible Turk" of yesterday was today more likely to be a mild man with an impish smile who shares American democratic ideals and loses no opportunity to urge Americans to invest in modern Turkey.



TOY TRACTOR running around a sand pile at International Harvester's Chicago tractor plant amuses the visitor.



GIFT JEEP is presented to President Bayar by Edgar Kaiser (right), the company head, in Willys' Toledo plant.



Look for this tag on a used car ... and buy with *NEW-CAR* confidence!

The OK Tag on a used car means that you can buy with confidence—the same kind of confidence the first owner had.

To earn the OK Tag, a car must go through thorough inspection, and then through careful reconditioning to make sure it's right in every way. As your Chevrolet dealer, we back the OK Tag with our written warranty—so that

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Come see us when you're ready to buy. We have a wide selection to choose from.

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CHEVROLET DEALERS**



BUY 2 BOTTLES

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ONE FOR THE KITCHEN!

● Next time you mix a meat loaf, add a cup of Heinz Tomato Ketchup. Or stir several tablespoonfuls of the *world's largest-selling* ketchup into a stew. Heinz Tomato Ketchup improves the flavor of plain foods wonderfully! It's made to our secret recipe—from the finest tomatoes, vinegar and spices that can be had. Keep a bottle handy when you cook!



Heinz 

YOU KNOW IT'S GOOD

MAGIC



ONE FOR THE TABLE!

● For the greater glory of pot roasts, steaks, hamburgers or omelets, put a bottle of Heinz Tomato Ketchup on the table! It's so rich and concentrated a little does the trick—and does it *well*. Try this famous can't-be-copied sauce and see why folks everywhere agree—*no other ketchup tastes like Heinz!*

Ketchup
BECAUSE IT'S HEINZ

Discriminating people prefer

HERBERT TAREYTON

...with the genuine cork tip to protect the lips



Mr. J. Bond Rogers, New York sea and winter sports enthusiast and veteran of the Armed Services, says: "I like Tareyton's mild tobacco and the genuine cork tip that doesn't stick to my lips."

J. Bond Rogers



You'll agree with Mr. J. Bond Rogers and other discriminating people who prefer Herbert Tareyton. You'll like the genuine cork tip that stays clean and firm, that won't stick to or tear your lips. And you'll like the modern king size that gives you a longer, cooler, naturally filtered smoke of fine, distinctive tobacco.

In fact, when you light up your first Herbert Tareyton, you'll say it's the most enjoyable cigarette you ever smoked!



PRODUCT OF *The American Tobacco Company* AMERICA'S LEADING MANUFACTURER OF CIGARETTES

TAREYTON'S GENUINE CORK TIP PROTECTS YOUR LIPS

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A SAINT IN PARIS

Abbé Pierre exhorts city to shelter its homeless

The wedged-in humanity shown below is part of the army of the dispossessed in Paris. These people are victims of an eternal housing shortage and the worst winter in 12 years. In the other years they had been left to fend for themselves. But this winter they found a friend, the Abbé Pierre Grouès, a gaunt, black-bearded war hero priest who earlier had organized a village for the homeless in an old prisoner-of-war camp and partly supported it by sending his people out collecting, sorting and selling junk. Now, over the radio and in personal appearances at paroohial schools and clubs, he spoke to the city with the voice of conscience. He said, "Today a child died in his home in an abandoned bus." He said, "This morning a woman froze to death on the Boulevard Sébastopol." Always he said, "Help us." Help came partly from the government which provided money, trucks, blankets, unused subway stations and even municipal halls (below) for shelters. It also came from ordinary people who opened their purses and sent in food, warm bedding and clothes in tons. "M n-ieur l'Abbé," said one woman, "you have awakened us," and the abbé was only moderately pleased. For the city's basic problem—the need for 80,000 new low-cost apartments—was still years from solution.

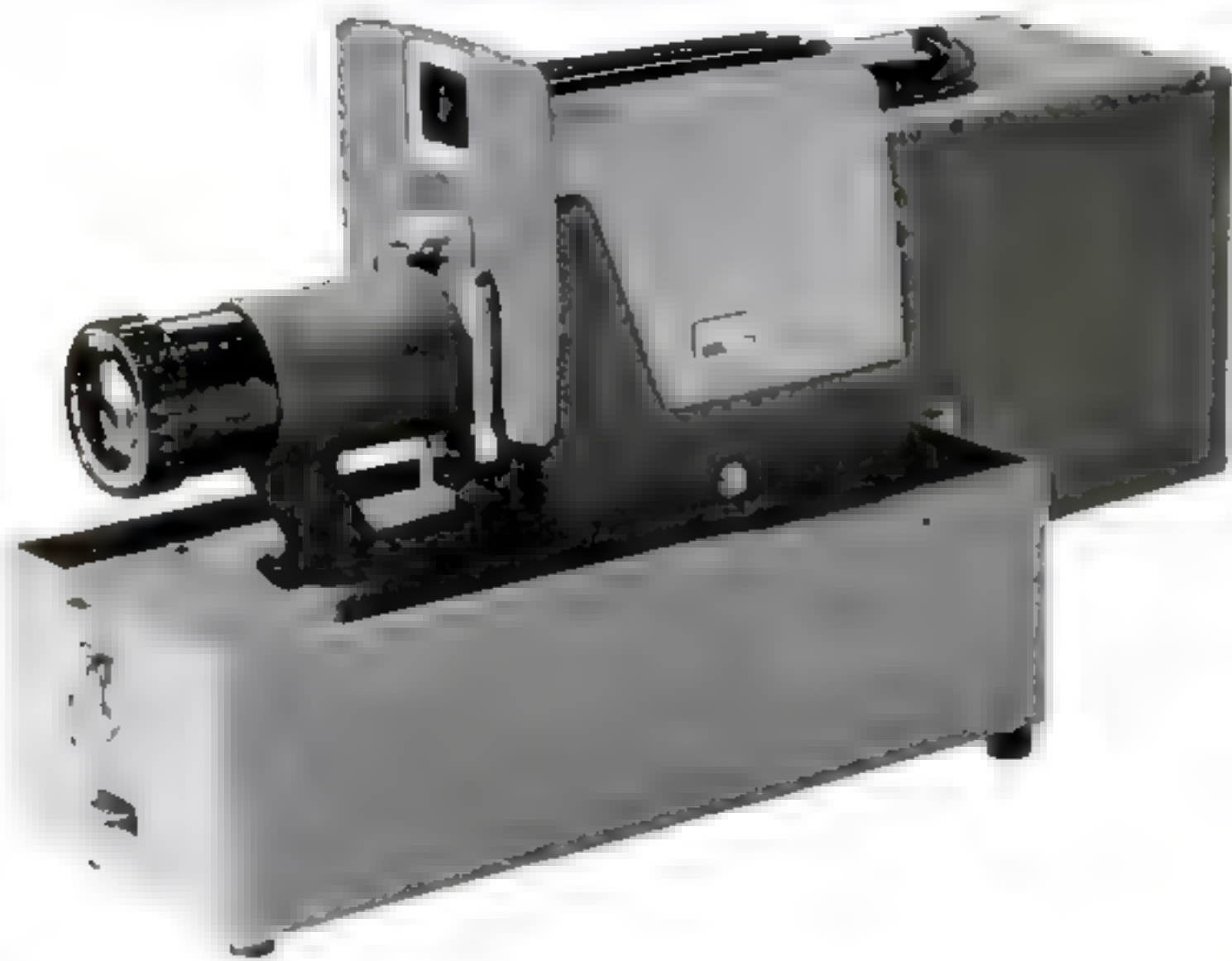


PLEADING FOR HELP, Abbé Pierre, a popular, slangy speaker, talks to meeting of his helpers while a second priest, Abbé Jean, listens in the background.



WARMED BY ABBÉ'S SOUP, THE HOMELESS BED DOWN WITH BLANKETS AND MATTRESSES PROVIDED BY HIM IN PARIS HALL HE HAS WANGLED FROM THE CITY

**See your color slides
extra big, extra brilliant
—even in a small room!**



new argus 300 watt projector

\$49⁹⁵
COMPLETE
with carrying case

The same fine precision engineering that goes into world-famous Argus cameras is everywhere in this new projector. Its scientifically-designed optical system is the finest of its kind. Its wide-angle, four-inch f:3.5 lens gives you a brilliant image, sharp and clear over the entire screen—a *big* picture even in a small room. An exclusive "right-side-up" rotary slide carrier prevents upside-down pictures. A powerful, yet silent blower and special heat-absorbing lens protects your valuable slides. A unique elevating device lets you center your pictures at a touch of your finger.

Compact and handsomely styled, it's the perfect companion for any 35mm camera. Ask your Argus dealer for a demonstration and you'll agree that no other projector gives you so much for the money!



ARGUS C3 \$69⁵⁰
COMPLETE
WITH FLASH & CASE

It performs like cameras costing hundreds of dollars more! Argus C3 is the only American-made 35mm camera to offer luxury camera versatility—interchangeable telephoto and wide angle lenses* that couple to the rangefinder. You get dazzling color slides, crisp black-and-whites, thrilling action shots—all with this one ideal, all-around camera.

*Interchangeable lens available at extra cost

argus

Manufacturers of precision photographic and optical instruments

Copyright 1954, Argus Cameras, Inc., Ann Arbor, Michigan. All prices include Federal Excise Tax where applicable, and are subject to change without notice.

A Saint in Paris CONTINUED



FUNERAL OF CHILD who died in slum is attended by Cabinet Minister Maurice Lemaire (behind abbé). He had killed housing bill, now pledges aid.



VOLUNTEER WORKERS in a railroad station sort mountains of clothing sent in for the poor in response to the radio and personal appeals by the abbé



TRYING ON NEW CLOTHES, two men turn backs on camera. Most of the men asking help were actually job holders unable to pay the high rents

CONTINUED ON PAGE 38

Jet Engine Plane and "Rocket" Engine OLDSMOBILE



ACs with Patented
CORALOX Insulator
are Built for Both!

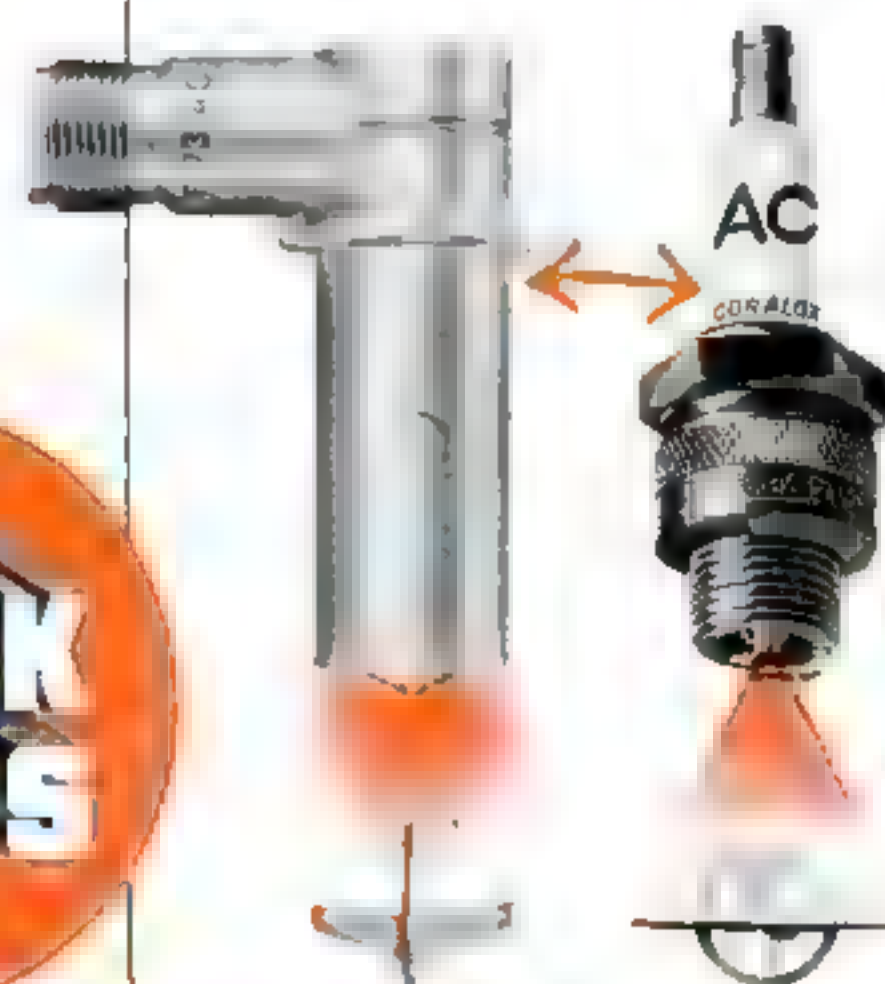


The *CORALOX* Insulator of the AC starter-plug used in jet planes must withstand terrific temperatures. This fact is important to car owners because the insulator of the AC Spark Plugs used to fire automobile engines is of the same composition as that used in the jet plug. *CORALOX* has greater electrical resistance at high temperatures than any previous insulator, so it won't let the current "short" and cause your engine to misfire no matter how high the engine temperature. The great strength of *CORALOX* permits the use of longer, thinner insulator tips which heat up quickly to burn away oil and wet carbon deposits. With these major causes of power-loss and fuel-loss eliminated, many a motorist—

- STEPS UP POWER BY AS MUCH AS 10%
- SAVES UP TO ONE GALLON OF GAS IN TEN

After your plugs have seen several thousand miles of service, your car's engine will benefit from a new set of ACs with patented *CORALOX* Insulator. They're available for cars of all makes and models.

ORIGINAL EQUIPMENT ON NEARLY AS MANY
NEW CARS AS ALL OTHER MAKES COMBINED



New BAKER'S INSTANT 4in1

is more chocolate-y...



mixes faster, hot or cold!



Kids love it -
better buy
the 1-lb. economy
size



A Product of General Foods

YES, INSTANTLY new Baker's Instant 4 in 1 Cocoa Mix makes luscious, more chocolate-y cocoa, best-ever cold chocolate milk. It's the *only* cocoa mix with such lightning action *plus* that richer, world-famous Baker's Chocolate Flavor. Better get the 1-lb. economy size *today* . . . the family will love it!

... IF IT'S CHOCOLATE — **BAKER'S** MAKES IT BEST!

A Saint in Paris CONTINUED



A NEW SHELTER for homeless is this railroad freight car. Abbé Pierre persuaded the railroads to sell their old cars to his poor families for \$57 each.



ESTABLISHED HOME in the abbé's colony for the homeless is this trailer which is occupied by an automobile worker, his wife and 16-month-old baby.



OLD BOTTLES, which are being handed from man to man to make way for truck, add a little to the colony's income. They will bring in about 4¢ each.

Breakfast with a bonus!



CALORIE COUNTERS!

Diet experts say reducing breakfasts should provide ample protein and $\frac{1}{4}$ to $\frac{1}{2}$ of the day's calories. This protein-rich menu: orange juice, 2 strips Swift's Premium Bacon, 1 fried Swift's Brookfield egg, 1 slice buttered toast—equals only 383 calories. (Portion for two illustrated.)



* HERE'S THE BREAKFAST THAT
GETS YOU GOING...KEEPS YOU GOING...
AND OH, THAT GRAND SWEET SMOKE TASTE!

Try this for a week at your house: Serve Swift's Premium Bacon and eggs for breakfast every morning. See if this healthy, nourishing combination with its extra bonus of tantalizing flavor doesn't help you work better, think faster, and feel sunnier the whole day through.

There are faster, cheaper ways to make bacon. But for Swift's Premium Bacon, only the best way is good enough. Those lean, tender slices with the famous Sweet Smoke Taste are from the heart of the finest bacon sides—sugar cured and smoked over glowing embers of fragrant hardwood.

Swift—to serve your family better

Swift's Premium Bacon

WITH THE SWEET SMOKE TASTE



Tune in
DON McNEILL'S
Breakfast Club
ABC—weekday
mornings





STAINED-GLASS WINDOW SCENE OF KREMLIN CLOCK TOWER LOOMS OVER MARBLED SOVIET EMBASSY LOBBY IN EAST BERLIN. BLURRED FIGURES ARE LEAVING



FUR-CAPPED SOLDIER was posted opposite embassy to direct official cars and hold off crowd.

BIG RED SHOW FOR BIG FOUR

For the first time Westerners get a look inside Russia's roomy \$3 million embassy in East Berlin

The Russian embassy in East Berlin, with its gleaming 69-foot-high lobby (opposite page) and 334 ornate rooms, is a closely guarded structure that few visitors are ever invited in to see. Situated just two blocks from the West Berlin frontier on a plot that was rented back in 1832 by the czar, it was demolished during the war and rebuilt in 1951 at a cost of \$3 million. But neither its expensive trappings nor its proximity to the West made it accessible until the Big Four met there this month. Then,

while the foreign ministers sat under three 900-pound crystal chandeliers in the embassy's glittering "Hall of Mirrors," their aides, secretaries and a host of newsmen as well were allowed to wander around and marvel at the precious marble, woods, murals and mosaics adorning the other rooms. But East Berliners, who view the embassy only from the outside are not impressed. They complain that it is the only new building that has gone up along their main boulevard, Unter den Linden, since the war.



SNUG IN A RUG-COVERED JEEP, SOVIET MPs WAIT TO ESCORT WESTERN DIPLOMATS TO THE EMBASSY



HALL OF EMBLEMS, with Soviet seal embossed on a mirror, was rejected by Western powers for conference room because of hammer-and-sickle motif. It was used instead for refreshment room.

AS SOVIET SENTRIES SNAP TO ATTENTION, TWO AMUSED AMERICAN SECRETARIES ENTER THE EMBASSY



Announcing the exciting new

EUREKA Roto-Matic

New beauty! 20% more power!



ALL the modern features in **ONE** cleaner!

MODERN FEATURE 1 Super-Powered!

20% more suction power in the sensational new 1954 Eureka! Full 4/5 HP motor means better cleaning, easier cleaning—lifts out deeply embedded dirt, whisks away surface lint instantly. Compare Eureka with them all—you won't find a more powerful beauty! (And you can reduce suction to clean draperies, throw-rugs without "pulling.")

MODERN FEATURE 2 Attack-O-Matic Clip-on Tools!

Eureka's exclusively—tools and electric cord clipped to cleaner's side are always right at your fingertips—end carrying and storage problems—save time, steps and temper!



"3-D" ALL-AROUND SUCTION
Concentrated super-suction
through front, rear AND both
ends of wide 12" nozzle!

SERRATED COMB-DESIGN
damps nap, loosens and
removes lint, dog hairs.

ADJUSTABLE FULLER BRUSH
keeps rug nap velvety, keeps
colors bright!

GLIDING "SHOE" ENDS
for easy side cleaning on all
types of rugs! No difficult,
limesome arm-action.



MODERN FEATURE 3

1954 3-D Rug Nozzle

The finest rug nozzle made: full suction power all around the nozzle—front, rear AND both ends. Three-way suction cleans deeper, cleans more rug area per minute!

Easy-Roll ROTO-DOLLY
smoothly rolls Eureka from
room to room on rubber
swivel-wheels—won't mar
even highly polished floors.
Optional at small extra cost.



MODERN FEATURE 4

No dust bag to empty (of course)

Gone are the days of dreaded, messy dust-bag dumping! Simply toss out throw-away paper bag, insert another—a few times a year.



1954

MODERN FEATURE

5

Easy Action Swivel-Top!

You clean a whole room without once moving the Eureka—save time, save steps, end wearisome tugging and lugging forever!



MODERN FEATURE

6

Dramatic New Beauty!

For the first time—sparkling new eye-appeal with the brilliant color combination of rich "Roto-Matic Red" and lustrous silvery gray! Amazing "three-dimensional" enamels create a gleaming jewel-like finish—another design "first."



MODERN FEATURE

7

Purr-r Quiet

(and so light)

Super-powered yet no whine, roar or vibration—motor is rubber-mounted. And upstairs cleaning's no chore with the bantam-weight Eureka—weighs 2 to 4 pounds less than others!



Get ALL that's modern in ONE cleaner

Get *years ahead*

EUREKA Roto-Matic

and save \$20 to \$30

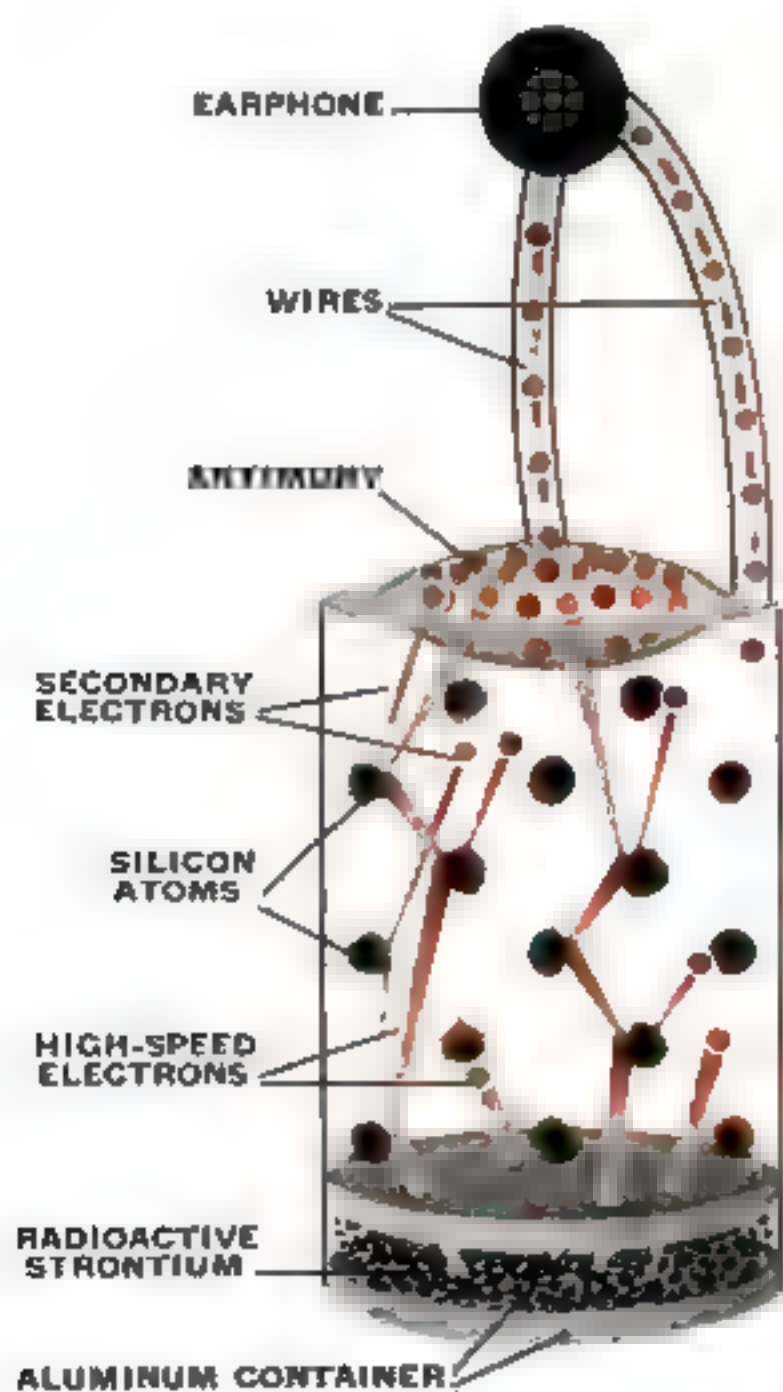


Eureka Williams Company, Bloomington, Illinois (Division of Henny Motor Company, Inc.)
In Canada: Onward Manufacturing Co., Ltd., Kitchener, Ontario

Better Products. Better Made for better living!



ATOMIC BATTERY USES RADIOACTIVE STRONTIUM (IN LEAD CASE), WHICH CAN BE MOVED BY ROD TOWARD SILICON DISK (BELOW) TO GIVE TINY CURRENT



HOW BATTERY WORKS is shown above. Electrons from strontium collide with silicon atoms, free other electrons. Electrons flow to antimony, out along wire to transistor device powering earphone.

A MINUSCULE ATOMIC BATTERY

Weak but long-lasting current is generated from nuclear leftovers

For many years scientists have been experimenting with methods of getting electricity directly from atomic radiation without intermediate heat exchangers and steam turbines. Recently RCA announced it had achieved just that with a tiny atomic battery (above). Though other atomic batteries have been built, their uses were highly specialized. But RCA felt its design was so promising it announced it publicly, envisioned large power stations across the land and compared the development of the battery to Edison's incandescent lamp.

In the battery high-speed electrons from radioactive strontium-90 (a by-product of atomic piles), release other electrons to produce a current (left). The power is minute (one millionth of a watt), and it would take the output of 100 million batteries to give power enough to light a single 100-watt bulb. But the tiny batteries could operate a radio or other electronic equipment. And because strontium radiates implacably for years the battery can be used for decades without running down.



BATTERY'S DEVELOPER, Paul Rappaport, listens to sound from earphone powered by battery.

Flower lovers! New Old Dutch Cleanser brings you —

THE 11th ANNUAL GARDEN OFFER YOU'VE WAITED FOR!

\$200 WORTH OF VAUGHAN'S FLORIST TYPE

(Certified Floral Catalog Value)

BULBS AND SEEDS for only **25¢**

with Windmill Pictures from 2 New Old Dutch Cleanser labels

Look at all you get:

- Brand-New Variety! Giant-Flowering "Golden Sunshine" Gladiolus Bulb. Imported from Holland!
- 5 Flowering-Size, Giant Exhibition-Type Bulbs. Glorious rainbow colors! Bulbs will bloom this summer, and multiply freely.
- 7 Retail-Size Packets of Flower Seeds. All field and laboratory tested by Vaughan's for purity, germination, type! All select, unusual.

SPECIAL!

"Golden Sunshine"
Holland Imported Bulb
plus 5 more Giant
Exhibition-Type Bulbs



PORTULACA

Single Jewel. New variety, four times the size of the ordinary Portulaca. Brilliant deep crimson. Catalog value 25¢.

SNAPDRAGONS

Rust-Resistant Mix. Giant-flowered, tall spike type. Variety of lovely pastel colors. Catalog value 25¢.

ASTERS

Wilt-Resistant Mix. Giant varieties, including the shaggy ostrich feather and peony flowered types. Catalog value 25¢.

COSMOS

Sensation. Medal winner. Giant-

flowered. Blooms early and blooms all summer. Red, pink and white. Catalog value 25¢.

MARIGOLDS

Super Giant Mixed, including odorless varieties. Resemble 6" mums, peonies and carnations. Catalog value 25¢.

PETUNIAS

Dwarf Small Flowering. Blooms profusely all summer. Gorgeous colors, including pinks and blue-purples. Catalog value 25¢.

ZINNIAS

Special Giant Mix. Includes all the large flowering types, some 6" in diameter. Riotous array of colors. Catalog value 25¢.

We make this 11th Annual Garden Offer so you'll try

Bursts into **GOLDEN**
"SUNSHINE SUDS"

Cleans Easier! New Old Dutch cuts grease lots faster, because those "Sunshine Suds" contain millions of tiny sponges. They soak up seven times their own weight. Then whisk away grease and grime when you rinse.

Disinfects! New Old Dutch is the only cleanser that contains a special sanitizer. Disinfects even the cloth you clean with.

Banishes Odors! New Old Dutch is wonderful for cleaning a skillet after frying fish or onions—or for wiping out the refrigerator.



NEW Old DUTCH

MAIL COUPON TODAY!

We'll ship your order when danger of freezing bulbs is past. But place your order immediately because supplies are limited. Right is reserved to refund your money if supplies are exhausted.

NEW OLD DUTCH CLEANSER

Dept. U, Box U, Chicago 77, Illinois

Please send me the "Golden Sunshine" bulb, 5 other bulbs, and 7 packets of flower seeds as offered. I enclose 25¢ in coin and Windmill Pictures from 2 New Old Dutch Cleanser labels.

Name _____

Address _____

City _____

Zone _____ State _____

Note: For each extra set of bulbs and seeds enclose 25¢ in coin and 2 Windmill Pictures. Offer good only U.S., Alaska, Hawaii, Puerto Rico—expires June 15, 1954.

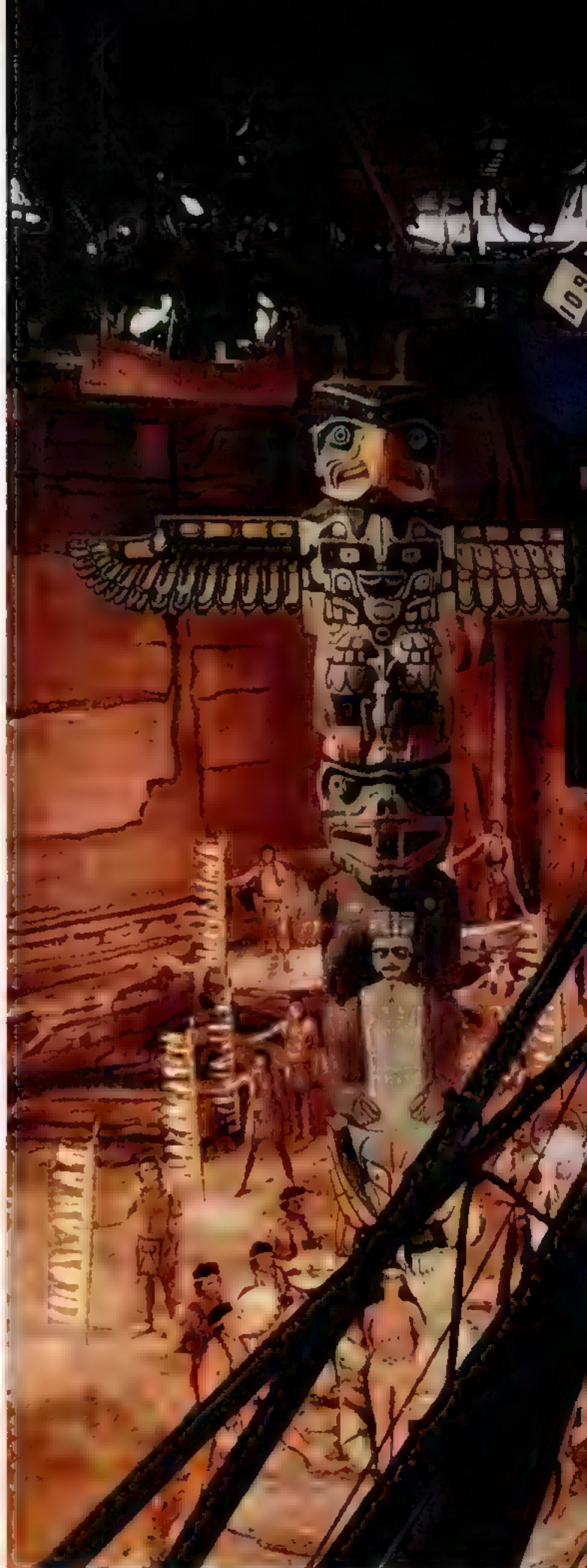
Rose Marie, They Still Love You

THIRD MOVIE IS BIGGEST OF ALL

The musical comedy *Rose-Marie*, by Friml, Stothart, Harbach and Hammerstein II, opened at the Imperial Theatre on Broadway in 1924, the day after the Dawes Plan went into effect and the first N.Y.-Rome transatlantic cable was begun. So popular has the show remained that 30 years later you have only to shout the two words 'Rose' and 'Marie' in that order to a group of two or more adults and one is bound to shout back, or sing back, off key, "I love you!" MGM made *Rose-Marie* into a silent movie starring Joan Crawford in 1928, then remade it in 1936 with Jeanette MacDonald and Nelson Eddy. In 1954, acting on their sound business principle that good things are worth repeating, MGM is giving it a third go-around, with a revamped plot.

The new CinemaScope *Rose-Marie* is bigger and better than ever. It has scenery shot in the Canadian Rockies and the California High Sierras, and 72-year-old Rudolph Friml himself collaborated on two new tunes. Bigger than ever before, the famed Indian Dance (right) took a month's rehearsal and \$200,000 to shoot on the biggest sound stage in the world.

NEWEST WANDA is Joan Taylor, on right, Indian whose real name is Rose Marie Emmer. She dances with 5,000 live feathers and 400 Indian Braves.





HIGH ON A BIG BOOM Above MGM's Stage 15, world's largest sound set, extravaganza expert Busby Berkeley and film's Director Mervyn LeRoy (seated)

supervise gigantic *Ten-Ten-Ten* Indian dance production number. Dancers were covered with a bronze metallic powder and each had a specially made wig.



COL. CROW VISITS WATKINS TAVERN (VERSAILLES, KY.)

At this famous meeting-place, eminent lawyers, merchants, and statesmen discussed the issues of the day with James Crow and enjoyed the product of his small distillery, a few miles away.

OLD CROW

Kentucky Straight Bourbon Whiskey

Daniel Webster, Mark Twain and a host of others famous in past and present American history called for Old Crow. This evening—add your name to this distinguished list. Enjoy Old Crow...now available at a milder 86 Proof as well as in the traditional 100 Proof Bottled in Bond.

"The Greatest Name in Bourbon"



LIGHTER
MILDEN
86 PROOF

BOTTLED
IN BOND
100 PROOF



THE OLD CROW DISTILLERY COMPANY, FRANKFORT, KENTUCKY

Historic welcome throughout the land greets introduction of 86 Proof Old Crow

*Answers public demand for a
milder, prestige bourbon*

Success is a habit with Old Crow. Never before in its 119-year history, however, has the call for "the greatest name in bourbon" resounded so loudly throughout the land. Everywhere in America, the recent introduction of the milder, lower-priced 86



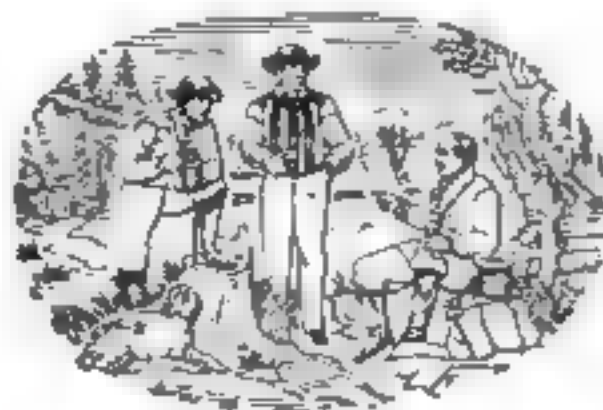
James Crow instructs his neighbors

Proof bottling of Old Crow, as a companion to the celebrated 100 Proof Bottled in Bond, has met with an enthusiasm rarely seen in the whiskey market place.

The very beginning of this success goes back to 1835, when James Crow first stamped his name on a barrel of his wonderful bourbon. Since that day, Old Crow has become a household word, a name engraved in the hearts and minds of millions of bourbon buyers of every estate. Daniel

Webster, Henry Clay and Mark Twain were but three of thousands of celebrated Americans who filled their glasses with Old Crow—a bourbon that traveled in frontiersmen's saddle bags through the Cumberland Gap; that rode in the holds of keelboats struggling up the roaring Missouri; that went by stage to become part of the elegance of the Atlantic seaboard's mushrooming metropolises.

From its historic Frankfort home—standing on the original site—Old Crow is still going places, its uncommon goodness and flavor winning more and more friends daily.



Daniel Webster visits Col. Crow

In your glass, or in your liquor cabinet, Old Crow marks you as one who chooses his bourbon with care—a man with an

unerring instinct for quality and a knowing appreciation of tradition and good taste.

You may obtain Old Crow today in your favorite bottling—either in the lighter, milder 86 Proof bottling or in the world-famous 100 Proof Bottled in Bond. Whichever you select, you will enjoy the finest Kentucky bourbon ever put into glass.

☆ ☆ ☆

NOW—TWO GREAT BOTTLINGS!

86 PROOF
Kentucky Straight
Bourbon Whiskey

Celebrated Old Crow—lighter,
milder and lower-priced than the
100 Proof Bottled in Bond

☆ ☆ ☆

BOTTLED IN BOND
100 PROOF
Kentucky Straight
Bourbon Whiskey



The most famous of bonded bourbons available as usual

COLUMBIA, ORIGINATOR OF "Lp," ANNOUNCES THE GREATEST SALE IN RECORD HISTORY!

Buy any Columbia Record—get another at **HALF PRICE!**

CLIP OUT THIS LIST AS A REMINDER

Take your pick from the world's largest library of Long Playing Records by the world's greatest artists!

Here's the chance of a lifetime to build up your record library with everything from Columbia's high-fidelity Masterworks to the most exciting jazz favorites!

There's *absolutely no limit* to the number of

Columbia "Lp" records you can buy. Make up *any* pairs you like just as long as both records are in the *same* price class. Then for every one you buy get another at **HALF PRICE!** Get all you can *while* you can. Hurry—see your dealer *now!*

THIS IS JUST A PARTIAL LISTING—THERE ARE THOUSANDS OF OTHERS!

Popular

Concertos for You—Liberace, with Paul Weston
Liberace by Candlelight
New Orleans—Jo Stafford & Frankie Lane
Broadway's Best—Jo Stafford, Paul Weston
Evening with Liberace
All-Time Favorites by Harry James
Sentimental Journey—Les Brown
Caribbean Cruise—Paul Weston
Calamity Lane—Doris Day & Howard Keel
Lullaby of Broadway—Doris Day
For Your Dancing Party—Sammy Kaye
Music from Hollywood—Percy Faith
American Waltzes—Percy Faith
Because of You—Tony Bennett
Johnnie Ray
Current Pop Instrumentals
Melodies for a Sentimental Mood
Ken Griffin's Latin America
Hawaiian Serenade—Ken Griffin
Sweethearts—Marion Marlowe, Frank Parker
Cocktail Hour—The Norman Paris Trio
Dream Time—Martha Lou Harp

Masterworks

Black Magic—Andre Kostelanetz
Tchaikovsky's Pathétique Symphony (No. 6)—The Philadelphia Orchestra & Ormandy
Volumes I, II, III, The Bix Beiderbecke Story
Beethoven's Symphonies No. 2 and 4—(one record) Walter & N. Y. Philharmonic

Richard Strauss' "Death and Transfiguration" and "Don Juan"—Bruno Walter & N. Y. Philharmonic
Berlioz—"Harold in Italy"—William Primrose, Viola; Sir Thomas Beecham & Royal Philharmonic
Dinu Lipatti Plays the Waltzes of Chopin
Beethoven's Piano Concerto No. 5 ("Emperor")—Gieseking, von Karajan & Philharmonic Orchestra
"Oklahoma!"—Nelson Eddy with supporting cast
"Ellington Uptown"—Duke Ellington
Richard Tucker in Celebrated Tenor Arias
Music by Strauss—The Philadelphia Orchestra, Eugene Ormandy
Sibelius Violin Concerto in D Minor—Isaac Stern & Sir Thomas Beecham conducting the Royal Philharmonic
Anna Russell Sings! Again?
Will Rogers Sings
Brahms: Symphony No. 1—Felix Weingartner & the London Symphony
The Student Prince—Dorothy Kirsten, Robert Rounseville
Meet the Composer Series—Igor Stravinsky conducting & playing his own works
Gershwin: Rhapsody in Blue and An American in Paris. Oscar Levant, piano
Great Scenes from Verdi's "Othello"—Eleanor Sieber, Ramon Vinay, Frank Guarrera
The Music of Victor Herbert—Andre Kostelanetz

Rhapsodies for Piano and Orchestra—Morton Gould and his Orchestra
The Music of Cole Porter—Andre Kostelanetz and his Orchestra
"Of Gods and Demons"—George London, Bass-Baritone
Marilyn Green's Gilbert & Sullivan
Beethoven: "Waldstein" Sonata and Sonata #30—Rudolf Serkin
Ballet Music from "Aida" and "Faust"

Two-Record Sets

Benny Goodman 1937-38 Jazz Concert No. 2
Beethoven: Symphony No. 9 in D Minor—Bruno Walter & N. Y. Philharmonic
Puccini: La Bohème, complete. A Metropolitan Opera production
Menotti: "The Medium" and "The Telephone"
Strauss: Die Fledermaus, in English. A Metropolitan Opera production.
"Conversation Piece"—Lily Pons and Noel Coward

Three-Record Sets

Bach: St. Matthew Passion—Willem Mengelberg, cond.
Cavalleria Rusticana and Pagliacci, complete. Metropolitan Opera
Gershwin: Porgy and Bess, complete
Early String Quartets of Beethoven—Budapest String Quartet
Bizet: Carmen, complete. Opera Comique
Puccini: Madame Butterfly, complete. Metropolitan Opera

Pair 'em up in any combinations you like—here are a few typical examples:

Buy Benny Goodman's Jazz Concert No. 2
—get at half price Beethoven's Symphony No. 9 in D Minor (Bruno Walter and the New York Philharmonic Orchestra)

Buy "Kismet" (original Broadway cast)
—get at half price "South Pacific" (original Broadway cast)

Buy the Music of Cole Porter (by Andre Kostelanetz)
—get at half price Tchaikovsky's Symphony No. 6 (Eugene Ormandy and The Philadelphia Orchestra)

Buy Duke Ellington's "Ellington Uptown"
—get at half price Marilyn Green's Gilbert & Sullivan

Buy Liberace by Candlelight
—get at half price Harry James' All-Time Favorites

Buy Gershwin's Porgy & Bess
—get at half price both Cavalleria Rusticana and Pagliacci (Metropolitan Opera Productions)

**COLUMBIA'S GREAT
"SALE-AND-A-HALF"**

—LIMITED TIME ONLY—
SEE YOUR RECORD DEALER NOW!

**Broadway Shows! Jazz! Symphonies! Popular Stars! Dance Bands! Chamber Music!
Operal Children's Records! Mood Music! Choose any of Columbia's great "Lp's"!
Exclusive Artists, Memorable Performances on the Finest Quality Records Made!**

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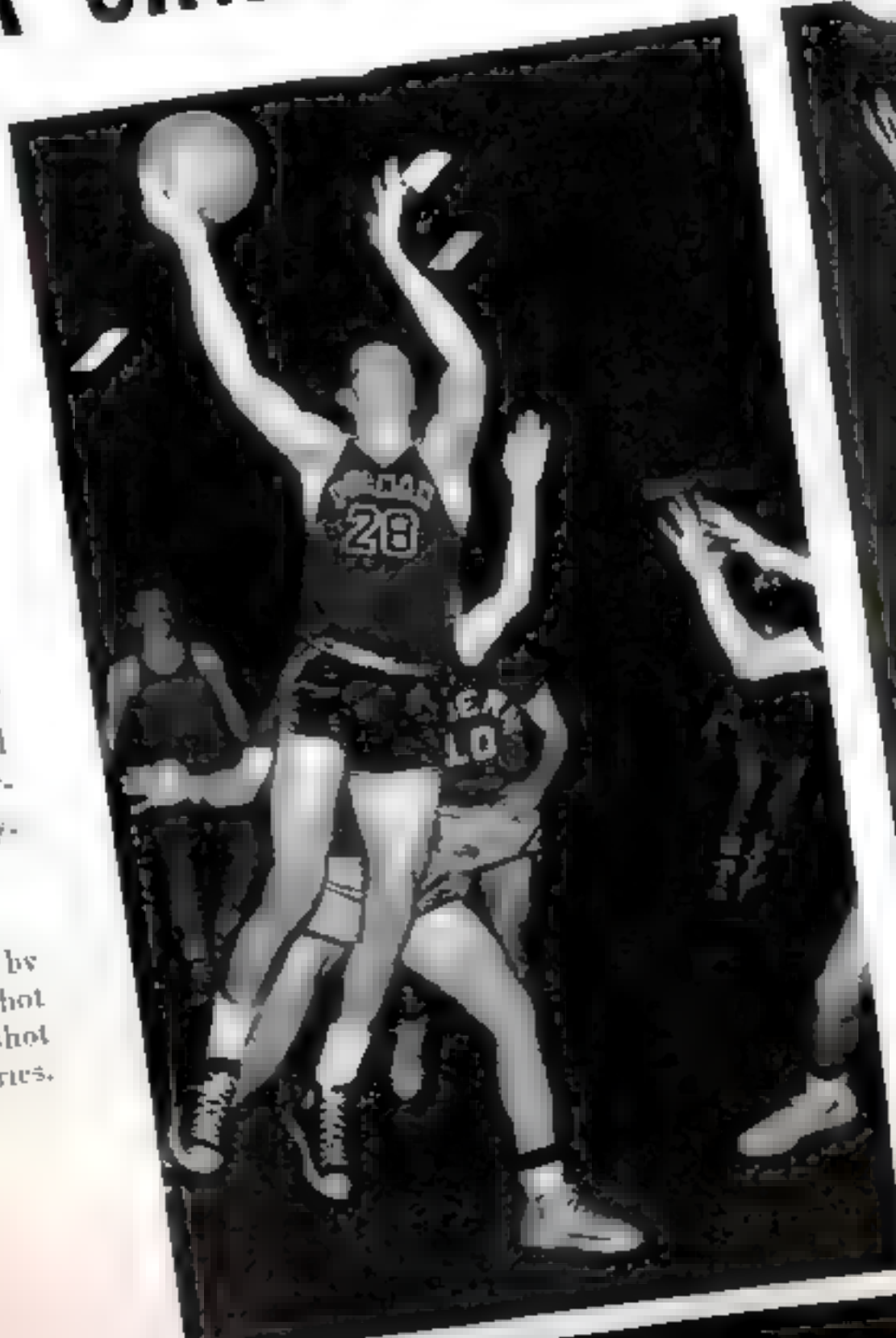
AGE, ALL FIVE PRESBYTERIAN COLLEGE PLAYERS FOCUS ON SELVY. DESPITE THIS OVERGUARDING, SELVY SCORED 45 POINTS

S. SCORER SINKS THEM RIGHT AND LEFT

us Franklin D. Selvy
record past 2,000 points

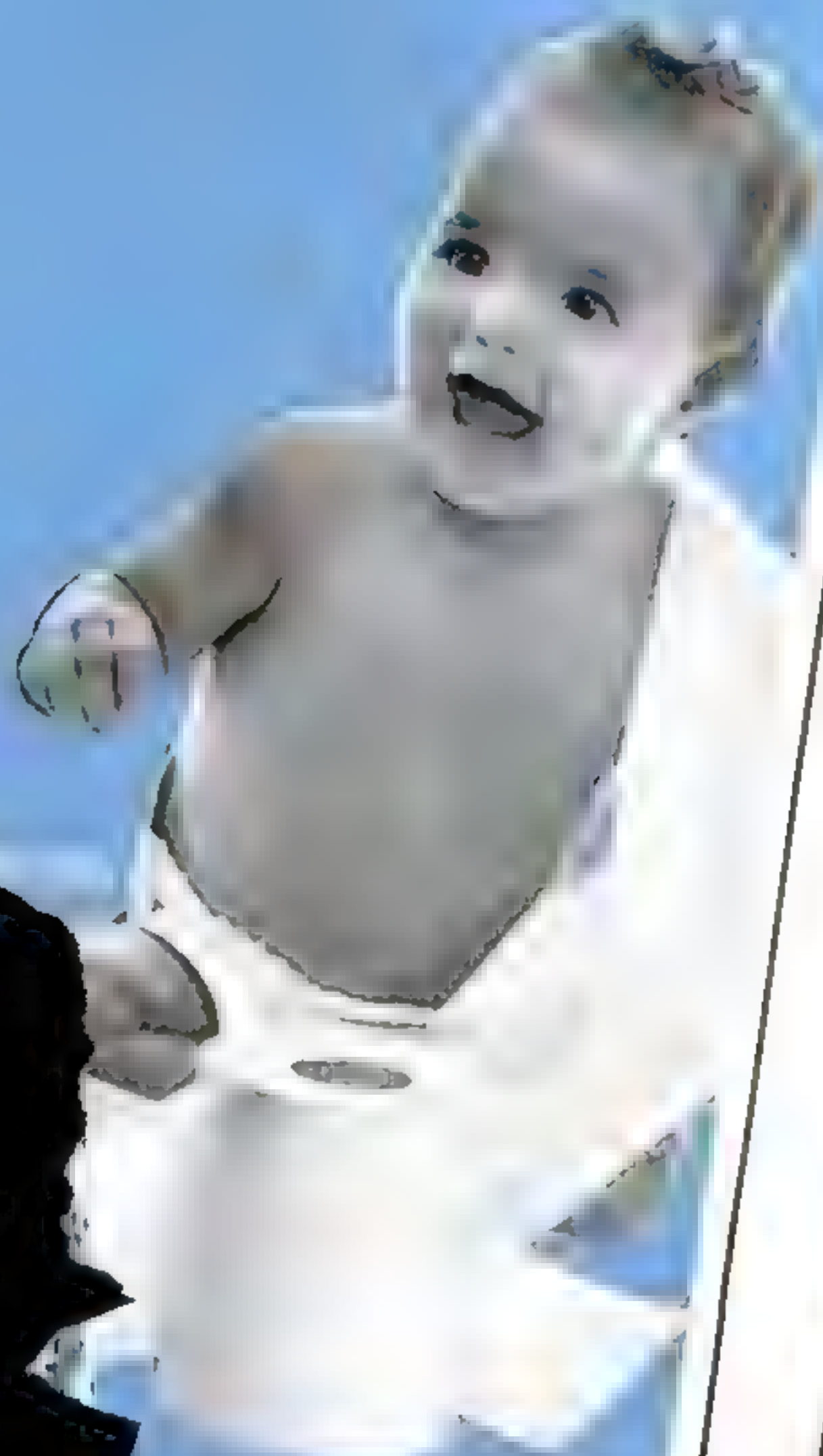
etball team playing Furman University
 Greenville, S.C.) invariably has to concern
 its defense on Furman's fantastic Frank-
 Delano Selvy. But Selvy, as accurate with
 his left hand as with his right, often scores as
 many points as the rest of his team, even when
 most of the opposition guards him (above).
 His average this season is 38 points a game.
 In fact, even though Furman plays many of
 the leading teams, Selvy's total last week had
 already reached 2,011, a new all time major-
 college record for three seasons of varsity play.

AMBIDEXTROUS SHOOTING is displayed by
 Selvy in Newberry game as he tosses hook shot
 with right hand (left picture) then sink layup shot
 with left (and Selvy makes 44 of 47) or, he tries.



Waldorf

is today's Great Buy



so soft you'll use it for baby always

WALDORF REG. U. S. PAT. OFF.

Top Scorer CONTINUED



RAPID FIRE, Selve flips ball toward net with left hand while first one thrown by right is dropping through. Next year he hopes to play pro ball.



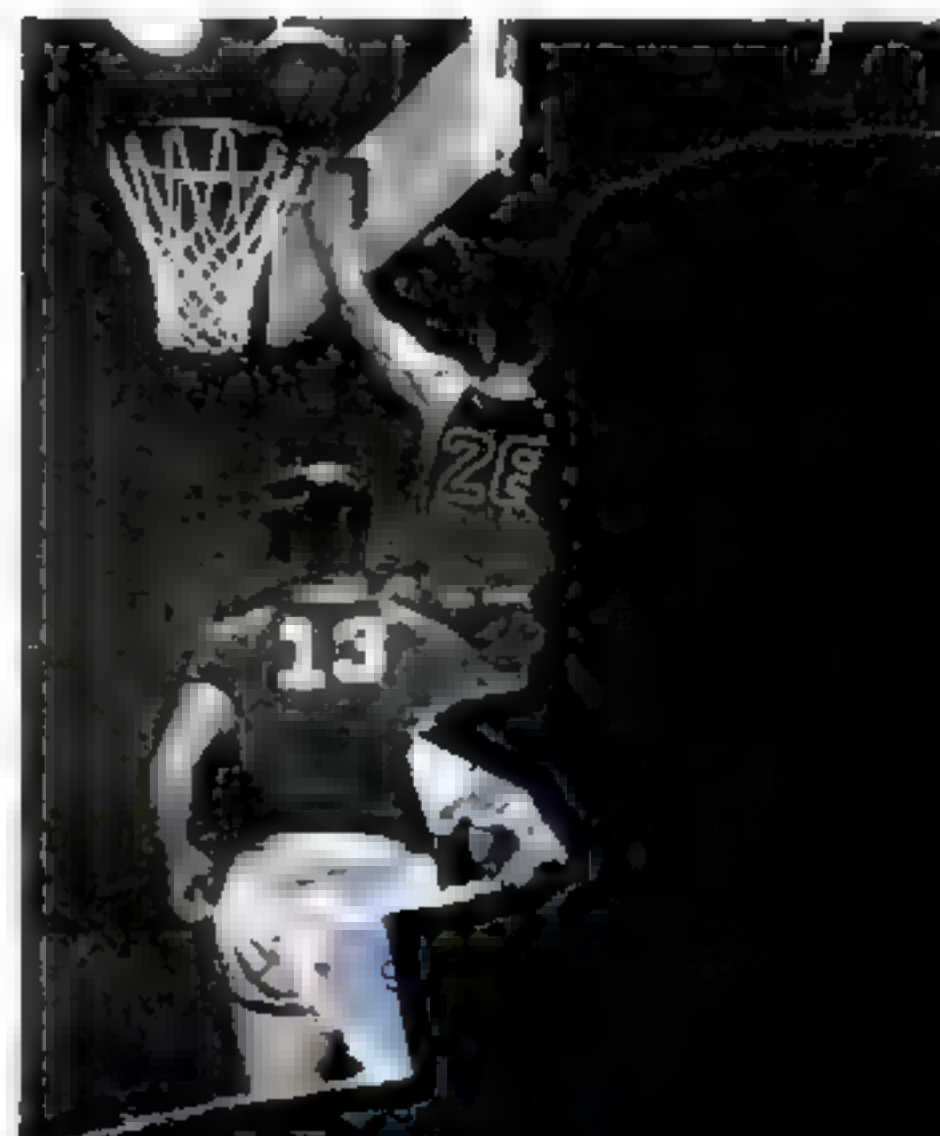
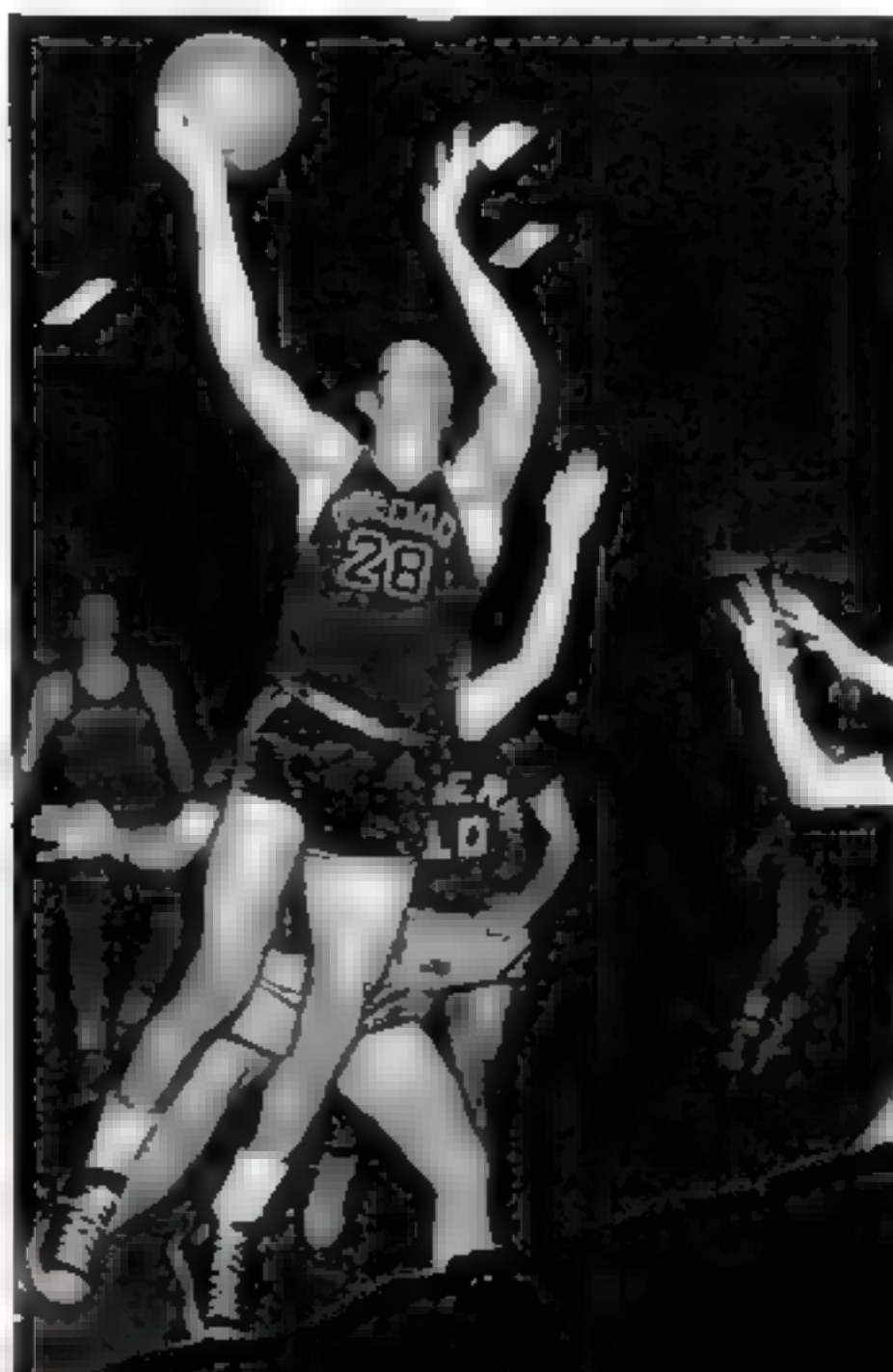
WITH THEIR BASKET IN RANGE, ALL FIVE PRESBYTERIAN COLLEGE PLAYERS FOCUS ON SELVY. DESPITE THIS OVERGUARDING, SELVY SCORED 48 POINTS

TOP U.S. SCORER SINKS THEM RIGHT AND LEFT

**Ambidextrous Franklin D. Selvy
boosts record past 2,000 points**

A basketball team playing Furman University (of Greenville, S.C.) invariably has to concentrate its defense on Furman's fantastic Franklin Delano Selvy. But Selvy, as accurate with his left hand as with his right, often scores as many points as the rest of his team, even when most of the opposition guards him (*above*). His average this season is 30 points a game. In fact, even though Furman plays many of the leading teams, Selvy's total last week had already reached 2,011, a new all-time major-college record for three seasons of varsity play.

AMBIDEXTROUS SHOOTING is displayed by Selvy in Newberry game as he *misses* hook shot with right hand (*left picture*), then sinks lay-up shot with left hand. Selvy makes 44% of shots he tries.



Waldorf

is today's
Great Buy



so soft you'll use it for baby always

WALDORF

NEW. U.S. PAT. OFF.



RAPID FIRE, Selvy flips ball toward net with left hand while first one, thrown by right, is dropping through. Next year he hopes to play pro ball.



LOOK MOM...

these suits made with Acrilan go right into the wash

... and they come out looking wonderful! Picture your youngster in a suit made with Acrilan, the remarkable acrylic fiber. When it's soiled, you just swish it through the suds and hang it up to dry. Next morning—with little or no ironing—it looks as if it were fresh from the cleaner: crisp, smooth, no shrinking, no drooping. And look at these other stunts: Acrilan is mothproof, resists wrinkles and keeps its smart looks even through the toughest wear. Do yourself a favor, Mom. See these all-season suits made with Acrilan... at your favorite store.

SUITS BY JACK FRANK, INC.
OF BURLINGTON HILLS "BURLADA,"
80% ACRILAN 20% RAYON AND
DEERING WILLIAMS & LEBRON,
55% ACRILAN, 45% RAYON

ACRILAN.

ACRYLIC FIBER BY
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AT L. S. AYRES • MD. ANAPOLIS • BEST & CO. NEW YORK • BULLOCK & CO. LOS ANGELES • T. A. CHAPMAN CO. MILWAUKEE • THE DAYTON CO. MINNEAPOLIS • HALL & BROS. CLEVELAND • J. L. HUDSON CO., DETROIT • H. & S. FOGUE CINCINNATI
R. H. STEARNS BOSTON • STRAWBRIDGE & CLOTHIER PHILADELPHIA • AND FINE STORES EVERYWHERE

THE CHEMSTRAND CORPORATION, DECATUR, ALABAMA • NEW YORK OFFICE: EMPIRE STATE BLDG., NEW YORK 1, N. Y.

Now! The glamorous new Cyclamatic



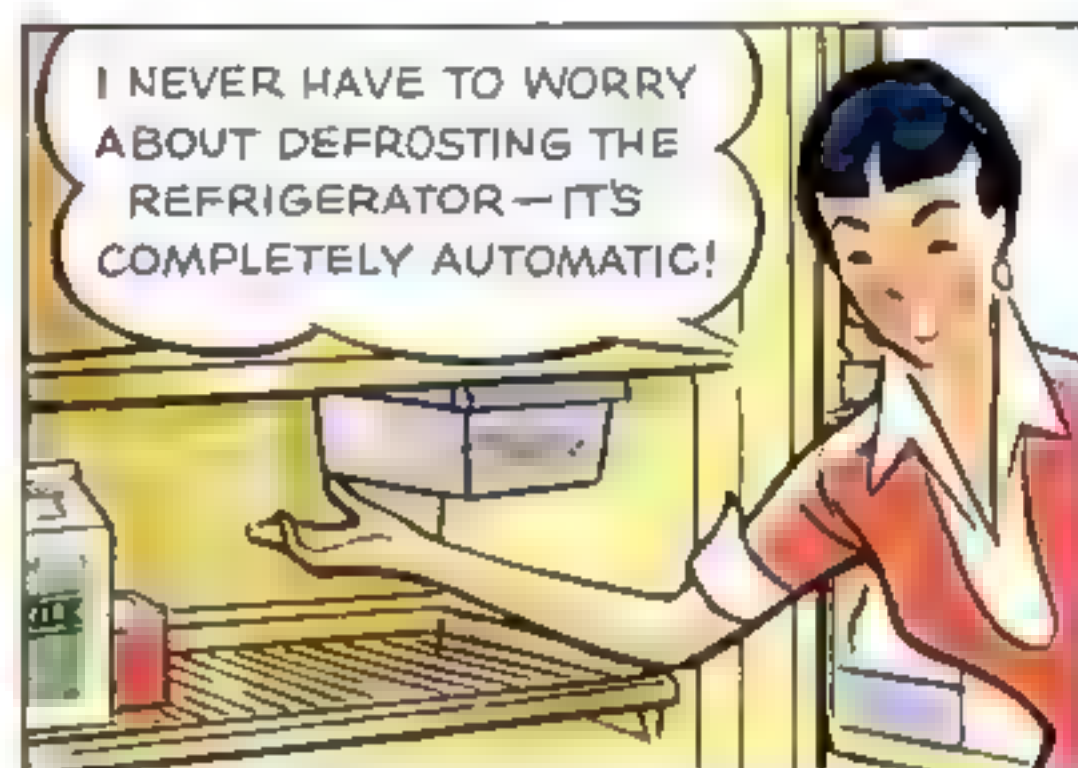
New COLORAMA STYLING
glorifies your kitchen

Choice of two colors or white on the outside
Matching colors on the inside, Porcelain or
Dulux exterior finish. A Frigidaire exclusive.

Frigidaire with complete Self-Service !

Here's the easiest-to-use food freezer-refrigerator ever made!

It's like having an extra helping hand in the kitchen!



Here's a brand new concept of food-keeping—complete Self-Service—that makes all previous refrigerators old-fashioned! Here's Self-Service from a huge food freezer, with famous Quickube Ice Trays...a freezer door that serves as a handy loading shelf...and a unique holder that practically hands you frozen juice cans.

Here's Self-Service from full-size Roll-to-You Shelves of golden finished aluminum, that put all back shelf foods up front. More Self-Service from a full-height, full-use Pantry-Door with special compartments and removable shelves that put everything at your finger tips. There's even Self-Service from the magic Cyclamatic brain that gets rid of refrigerator frost before it collects—needs no buttons, dials or timers. Never before such complete convenience, never before such an easy-to-use food freezer-refrigerator. And never before so many Cyclamatic models to choose from.

Choice of right or left-hand doors at no extra cost. Color styling harmonizes with most kitchen plans, and with new Colorama styled Frigidaire Electric Ranges. All 17 Frigidaire models have exclusive Meter-Miser, simplest refrigerating mechanism ever built.



See your Frigidaire Dealer—ask about models Arthur Godfrey recommends on his TV and radio shows. Look for your Frigidaire Dealer's name in your phone book under "Electrical Appliances." Or write Frigidaire, Dept. 2204, Dayton 1, Ohio, for descriptive folder. In Canada, Toronto 13, Ontario.



Cyclamatic Frigidaire

Built and backed by General Motors

Cyclamatic Imperial Model CTI-103

Be modern... live electrically



Known by the Company it Keeps



Seagram's V.O.

SEAGRAM DISTILLERS CORPORATION, NEW YORK CITY 86.8 PROOF CANADIAN WHISKY—
A BLEND OF RARE SELECTED WHISKIES • SIX YEARS OLD



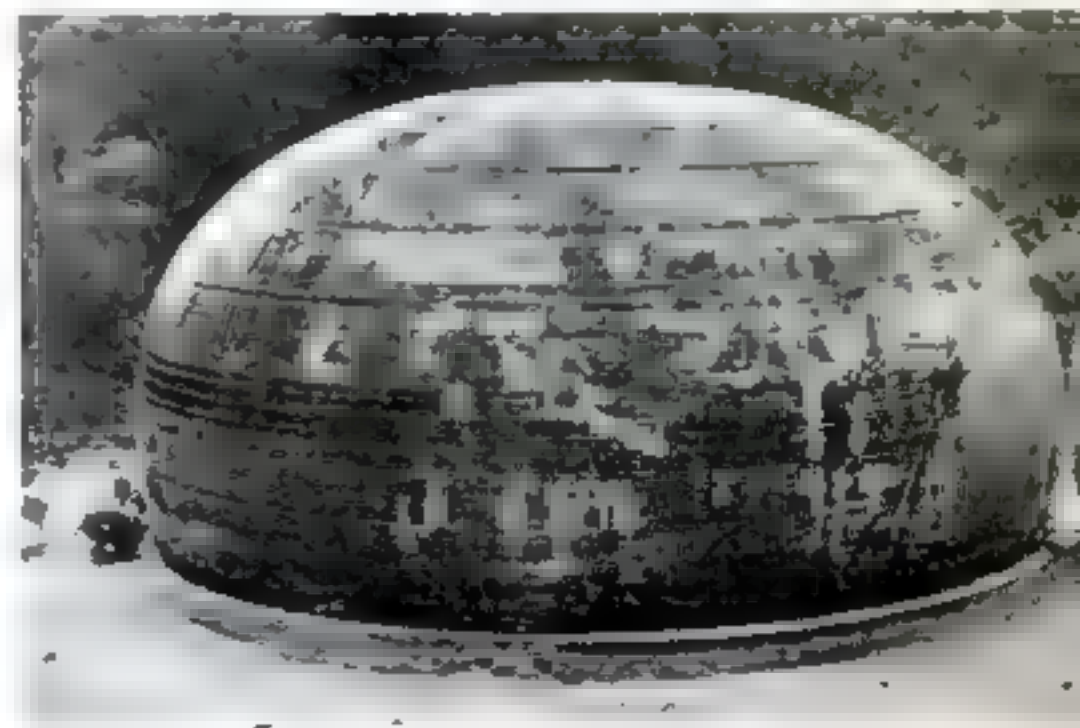
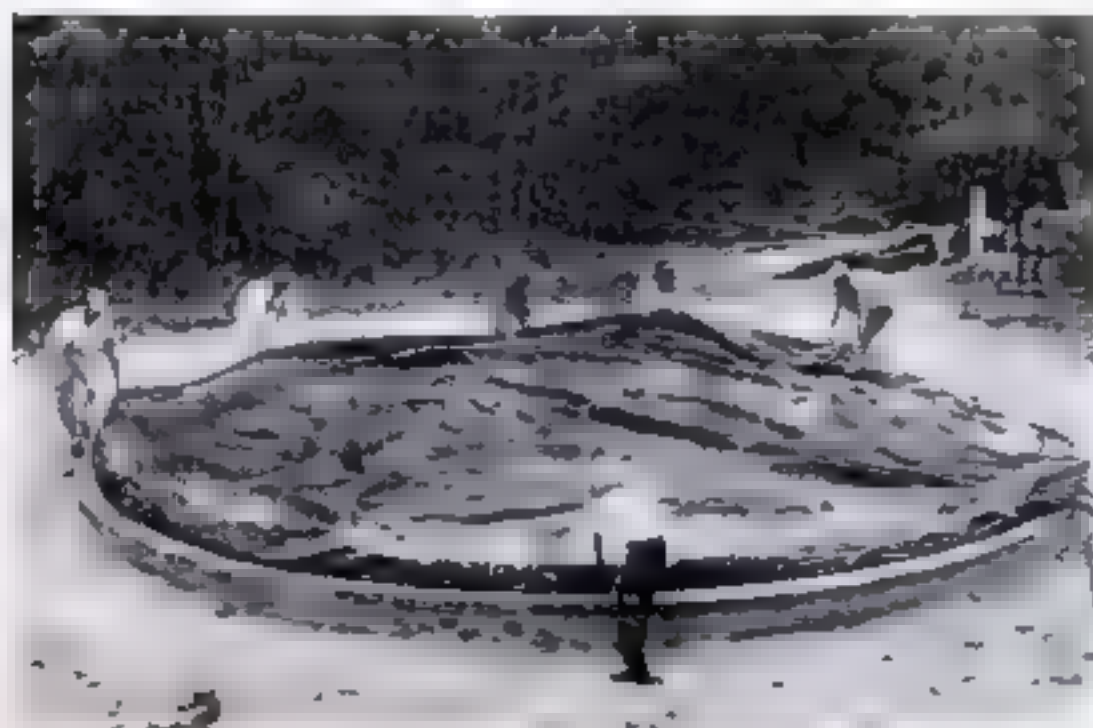
CONCRETE SHELL OF HOUSE WHICH TOOK ONLY THREE DAYS TO SPRAY DRIES IN FLORIDA SUN. GLASS WILL COVER OPENINGS. INTERIORS ARE FLEXIBLE

SEMITROPICAL IGLOO

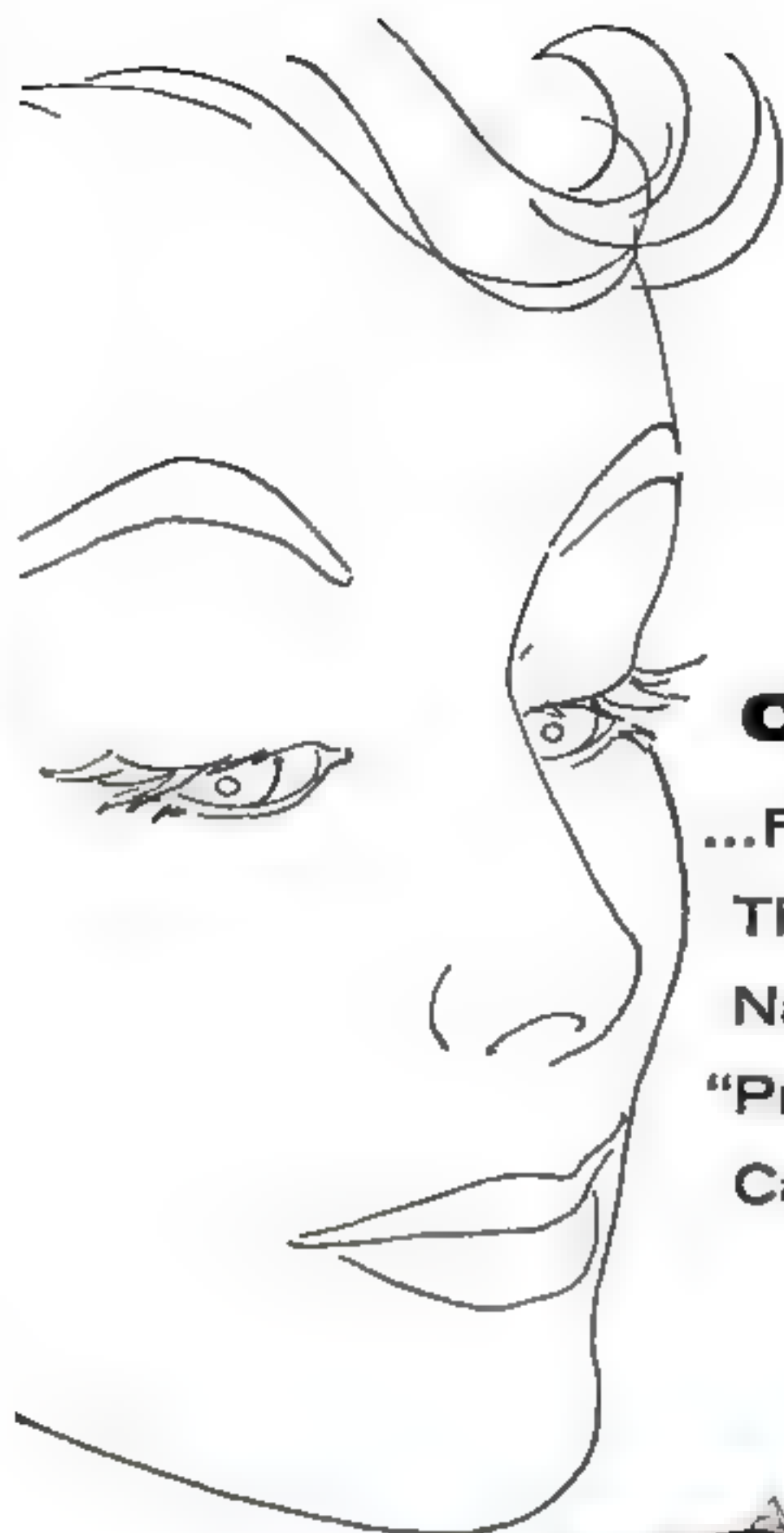
'Bubble House' is the new version of a practical cement dwelling for \$6,500

For the past decade in the semitropical latitudes of Africa and South America visitors have occasionally been startled at the unlikely sight of an igloo. It was actually a "bubble house" which was invented 13 years ago by Wallace Neff (LIFE, Dec. 1, 1931). Its simple, basic construction is to fill a balloon with air, spray concrete over it, let the concrete harden and then take the balloon away. This made an inexpensive and practical

house, but it also made a cement globe that did not win much popularity in the U.S. Now a new model, designed by Eliot Noyes and built by Air form, has gone up (see it page) at Hobe Sound, Fla. It has 600 feet of planar, round-like living space and will sell for only \$6,500. Its concrete structure is both hurricane proof and bagproof. And the new 'bubble's' open stretches of glass make it look less like the tornado-proof igloo of old.



FIRST STEP IN BUILDING HOUSE IS SPREADING BALLOON OVER A FOUNDATION (LEFT). DIFFICULT TRICK IS KEEPING AIR PRESSURE CONSTANT IN BALLOON



CUTICURA

...For 75 Years
The Most Famous
Name in
"Problem-Skin"
Care!



• The Meaning of a Famous Name...

Cuticura ... aid to clear, smooth, blemish-free skin ...

Cuticura ... aid to soft, lovely, radiant complexion ...

Cuticura ... a name trusted by beauty and health-conscious Americans for over 75 years!

Cuticura has become a synonym for effective care of troubled skin ... for the way to a soft, smooth, enchanting complexion. How wonderful is mildly medicated Cuticura Soap and the way it gently, softly cleanses the skin ... allows your natural beauty to glow. How soothing is emollient Cuticura Ointment as it helps clear away annoying blackheads and hateful externally caused pimples while you sleep! And how much faster those troubles vanish when you use new, "invisible" Cuticura Medicated Liquid during the day!

In keeping pace with modern medical science, Cuticura keeps faith with you and the many doctors who rely on these preparations. Why don't you join those millions of Cuticura enthusiasts—and be sure with Cuticural Ointment, only 45¢. Soap, 25¢. Medicated Liquid, 60¢. At drug counters everywhere.

'BUBBLE HOUSE' CONTINUED



MESH CORSET is wrapped around blown-up balloon, keeps sidewalls vertical. Balloon and mesh may be re-used countless times to mass-produce houses.



CONCRETE SURFACE, shot over the mesh corset, is time-saving step. Shot-creting, as it is called, is quicker, less costly than troweling by hand.



FINISHED HOUSE lifts a graceful concrete dome in a landscaped plot of cocoa palms. When glass louvers are opened, air sweeps through house.

CONTINUED ON PAGE 78



NO
GAUZE

because

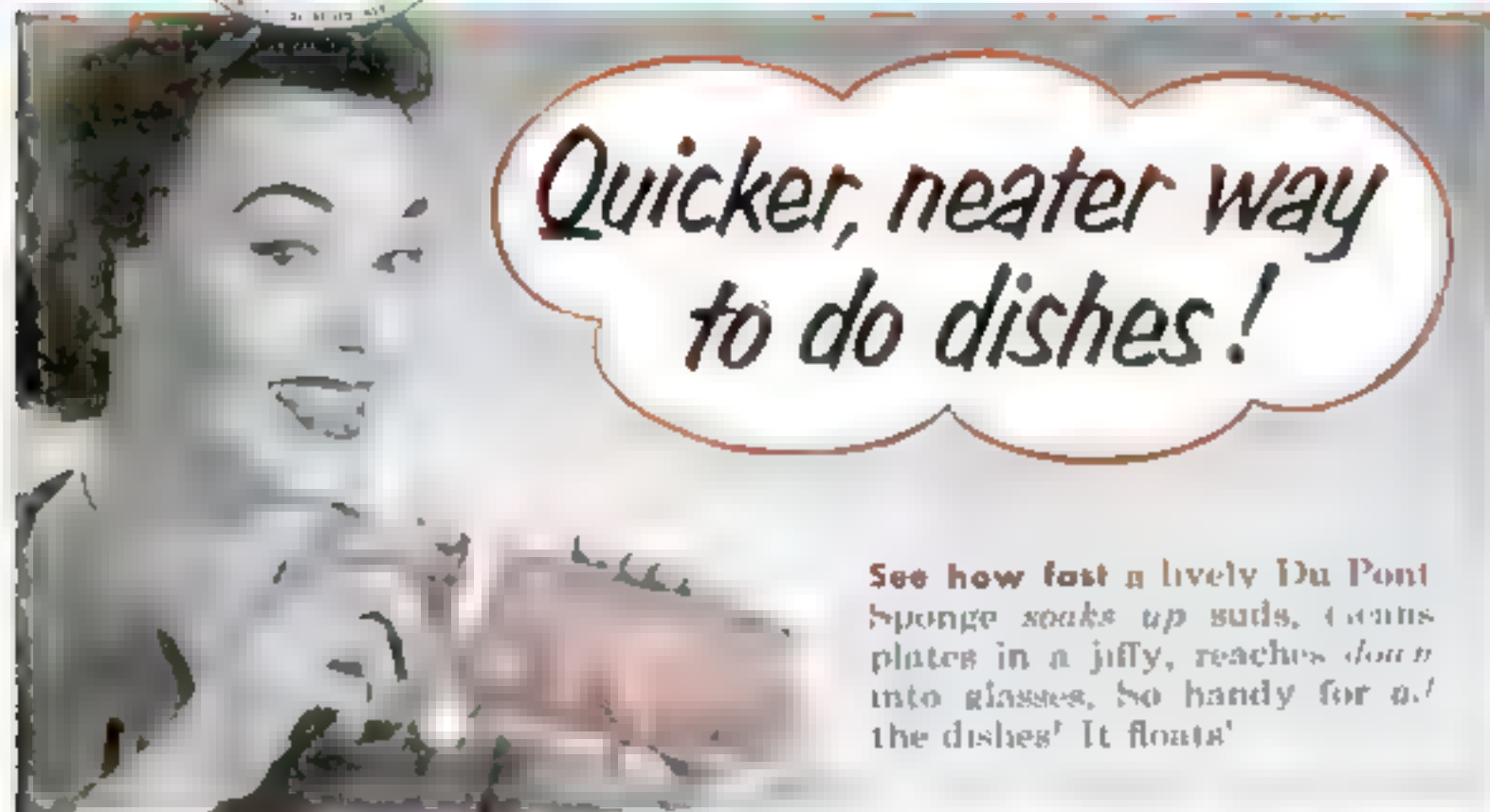
*only NEW DESIGN MODESS
gives you the luxury of a new whisper-soft
fabric covering...no gauze...no chafe!*

Makes cleaning easier

TODAY'S DU PONT SPONGE

with the lovely new in style!

Good directed by
Good Housekeeping

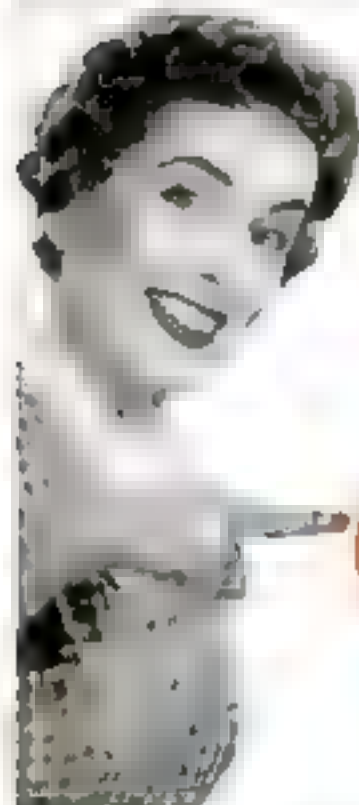


*Quicker, neater way
to do dishes!*

See how fast a lively Du Pont
Sponge soaks up suds, cleans
plates in a jiffy, reaches down
into glasses, so handy for all
the dishes! It floats!

*And a Du Pont Sponge
is so easy to clean
after using!*

Just rinse and squeeze, and it's
clean through and through!
Can be sterilized by boiling. 5
lovely colors . . . handy sizes
from 19¢. Buy a supply today



LOOK for this oval on the
package...it identifies
the only genuine long-
lasting Du Pont Sponge.



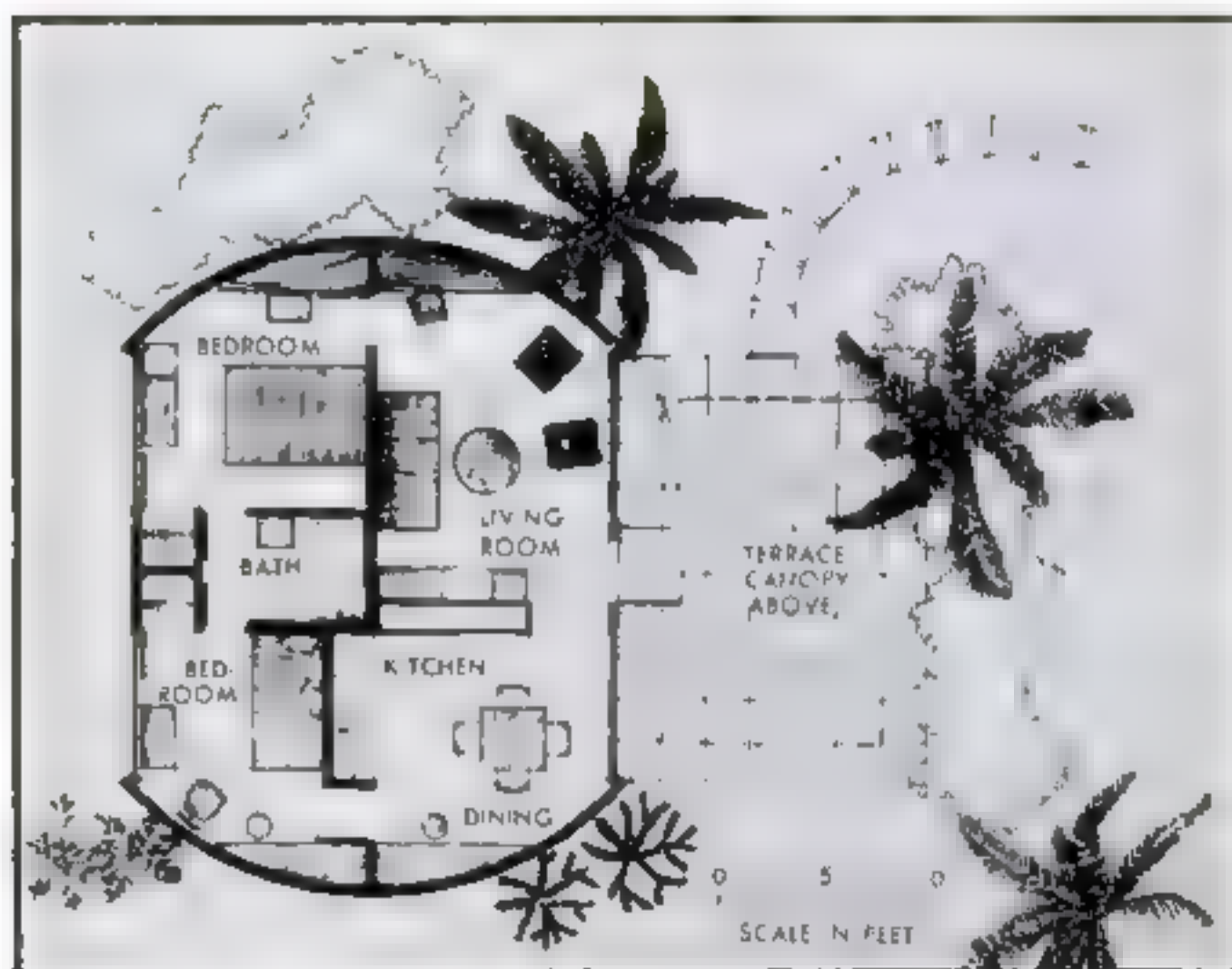
REG. U S PAT. OFF

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

'BUBBLE HOUSE' CONTINUED



VAST DOME arches over living-dining area giving a spacious effect. By day
sun hits dome and floods area with reflected light. Claustrophobes love house.



FLOOR PLAN shows two-bedroom version of the house's alternate arrange-
ments. A four-bedroom house may be built with two domes connected by a
breezeway. There is also a 60-foot diameter plan which makes a three-bedroom
house. In a month 3,000 people have seen houses, and most have liked them.



AMPLE TERRACE off living area is covered by canvas awning. Above: Ar-
chitect Eliot Noyes sits on terrace with Interior Decorator Kathryn Smullen.

So good

AND STILL
ONLY



A NICKEL !

The candy with the hole

THE TRADE-MARK "LIFE SAVERS" IDENTIFIES "THE CANDY WITH THE HOLE" MADE EXCLUSIVELY BY LIFE SAVERS CORP. IN THE UNITED STATES AND BY LIFE SAVERS LIMITED IN CANADA.



Little Girl Dresses

THEY ARE REALLY FOR WORLDLY WEARERS

Last fall in his "eruption of youth" (LIFE, Aug. 31) Dior brought a junior-miss look to high fashion. Now New York's Traina-Norell, hitherto renowned for such wholly adult fashions as the sequined siren sheath (LIFE, Sept. 8, 1952) and backless dress (LIFE, Oct. 12), has gone Dior a few years younger and produced



some dresses which make small-waisted women look like the baby carriage trade.

Made with enormously full skirts over built-in petticoats the dresses have puffed sleeves, smocking, tucking and broad sashes. Although the clothes look very young their designer states sternly that they must be worn by only

the most sophisticated, and with them he advocates spindly sandals (those shown are from Julianelli) and hair brushed back from the face. The skirts are about 15 inches from the floor but appear even shorter because of their width. Now priced at \$300 and up, these little girl designs are sure to be less expensively

adapted by summer. Here, around a grownup girl's birthday cake, are Trama-Norell's sash-tied surah (*left*), organdy with satin trench coat, cotton with rose-sprigged apron, miniature print, embroidered organdy and lace with satin sash, rows of rosebuds on cotton, sailor-collared cotton faille and tucked white poplin.



When
you want
a Lenten meal
that's a
family favorite...

It's the specially blended sauce that makes Chef Spaghetti Dinners—and all the many other Chef products—so extra-specially good.

Try Chef Boy-Ar-Dee Ravioli, Spaghetti and Meat Balls, Sauce with Meat, Sauce with Mushrooms, Sauce with Meat Balls, and Meat Balls with Gravy.

Why not make one night a week "Chef Night"? You'll save time, save money, serve wonderful meals!



Quick tempting...tasty

CHEF BOY-AR-DEE

SPAGHETTI DINNER

with Mushroom Sauce

Add delicious new life to your Lenten meals! Zip open a complete-in-one-package Chef's Spaghetti Dinner with Mushroom Sauce. In 12 short minutes, you'll have a wonderful hot dinner for 3.

Yes, complete in one package! The finest, quick-cooking spaghetti...ready-to-heat sauce with tender mushrooms...and tangy grated cheese. A nutrition-high meal at only 14¢ a serving!



THE DALAI LAMA I KNEW

Austrian who spent seven years in Tibet was tutor to world's remotest ruler

by HEINRICH HARRER

*Many LIFE readers will remember the poignant photographs of the flight of Tibet's Dalai Lama before the invasion by Chinese Reds (LIFE, April 23, 1951). They were taken by Heinrich Harrer, an Austrian mountain climber who escaped a British wartime internment camp in India, and with a fellow escapee, Peter Aufschnaiter, made his way over the passes to primitive Tibet. He learned the language and became tutor to the Dalai Lama. In this article, which will be included in Harrer's book *Seven Years in Tibet*, to be published next week by E. P. Dutton and Co. (\$5), he gives the most intimate close-up yet presented of his unusual pupil.*

MOST of the life of Lhasa is concentrated in the Parkhor, a street that runs in a circle around the cathedral. It becomes an even more important center at the time of Tibet's New Year (early March on our calendar), when the Dalai Lama goes in procession through the Parkhor.

Aufschnaiter and I watched one of these processions from a window on the street. It was at night and the scene was brightly illuminated with a swarm of lights. There were thousands of flickering butter lamps and among them a few petroleum pressure lamps with their fearful glaring light.

The cathedral doors opened and the 10-year-old God-King stepped slowly out, supported to right and left by two abbots. As he approached, the people bowed, as a field of grain bends before the wind. No one dared to look up. With measured steps the Dalai Lama began his solemn circuit of the Parkhor, followed by a brilliant retinue of all the high dignitaries and nobles. He passed quite close to our window. The crowd was frozen. Deeply moved, we hid ourselves behind the women as if to protect ourselves from being drawn into the magic circle of this power.

We kept saying to ourselves, "It is only a child." A child, indeed, but the heart of the concentrated faith of thousands, the essence of their prayers, longings, hopes. Whether it is Lhasa or Rome, all are united by one wish, to find God and to serve Him. I closed my eyes and harkened to the murmured prayers and the solemn music and sweet incense rising to the evening sky.

CONTINUED ON NEXT PAGE



AUTHOR is soon coming to U.S. He will visit Eskimos in Alaska, look for similarity to Tibetans.

DALAI LAMA, worshiped as a Living Buddha sits above thunderbolt crest, the symbol of his power →



EASY WAY
to make sure your child
gets all these healthful
"building blocks"
every day



One delicious hot cereal—Ralston, served with milk (or formula), supplies them all!

That's why doctors say "start young" (3 to 6 months) to give your child these daily benefits that help pay off in steady growth, sunny disposition, healthy appetite, mental alertness. And children love its rich heart-of-wheat flavor!

Every spoonful contains a double helping of wheat germ... and

Instant Ralston
cooks in 10 seconds... good news for busy mothers!



RALSTON PURINA COMPANY, ST. LOUIS, MO.



"WALKING ON KNIVES," Tibetans try strange new sport taught them by author. Skating pupil on left is Dalai Lama's older brother, Lobsang Samten.

DALAI LAMA CONTINUED

Earthly existence is of little worth in Tibet and death has no terrors. Men know that they will be born again and hope for a higher form of existence in the next life, earned by pious conduct in this one. It is a catastrophe when a fly falls into a cup of tea. It must at all costs be saved from drowning as it may be the reincarnation of one's dead grandmother. In winter they break the ice in the pools to save the fish before they freeze to death. But this did not prevent me from organizing a skating club, with the freezing of a small tributary of the Kyi Chhu.

It was the skating rink that led to my meeting the Dalai Lama. One of the members of our skating group was Lobsang Samten, the Dalai Lama's brother. From him the Living Buddha heard about our new sport. But our rink was invisible from the roof of the Potala (winter palace). He would have clearly liked to see us disporting ourselves on the ice, but as that was impossible, he sent me his moving picture camera with instructions to film the rink and the skaters for him. I had never taken a movie before so I made a careful study of the prospectus and instructions that he sent. Then I made my picture and had the film sent to India by the foreign ministry to be developed. In two months it was in the hands of the Dalai Lama. It had come out very well. It seems curious that this film, a cultural synonym of the 20th Century, should have been the starting point of a relation which in spite of all conventions eventually became a close friendship.

Soon after this, Lobsang Samten told me that his brother wished me to film different ceremonies and festival scenes for him. I was astonished to see how great was his interest in these pictures. He always sent me the most precise instructions, sometimes in writing and sometimes verbally through Lobsang Samten. He would send word to say that this or that ceremony was due to start punctually. I, too, was able to send a message telling him when during a procession to keep his eyes fixed in the direction of my camera.

Then one day Lobsang Samten surprised me by asking me if I would undertake to build a room for showing films. His brother had expressed the wish that I should do so. Life in Lhasa had taught me that one should not say no even when asked to do things with

CONTINUED ON PAGE 20



MOVIE THEATER (left) was built for Dalai Lama by author at God-King's summer home. Taller building at right is golden-roofed pavilion from which the Dalai Lama watched the costume performances in adjoining courtyard.



Many products can mask the odor of "morning mouth"—for a while.
But Chlorodent Toothpaste really gets rid of it

Smart girls don't mask "morning mouth" —they get rid of it with Chlorodent

Don't get us wrong, please.

None of us would *really* use a diver's helmet to mask "morning mouth," would we?

Yet we all know "morning mouth," that disagreeable taste that most of us wake up with in the morning, is a sure sign of objectionable mouth odor. And nobody wants to offend others with it during the day.

The best way to get rid of "morning mouth" is to use Chlorodent. There's not just a pinch of chlorophyll in this toothpaste, but a big chunk—enough to stop "morning mouth" cold.

Your own proof is that wonderful, clean, fresh

feeling Chlorodent leaves in your mouth!

There's something else you should know about Chlorodent. Chlorodent's formula has a polishing agent that really cleans and brightens your teeth. It's so different the U. S. Government issued us a patent on it. Its benefits are yours only in the Chlorodent formula.

Why not use Chlorodent at our risk? We're so confident that you'll love the wonderful, clean, fresh feeling that Chlorodent Toothpaste leaves in your mouth, that we'll send you your money back if you don't find it passes your test. Fair enough?

Stop "morning mouth"—
enjoy that
wonderful, clean, fresh
Chlorodent feeling!



Your
Favorite



Cake Mix

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When You Try **7-MINIT**
Fluffy FROSTING

LUSCIOUS NEW
BOILED FROSTING
MADE WITHOUT BOILING!



*UNDER TERMS OF THIS OFFER.
COST OF CAKE MIX
NOT TO EXCEED 40¢



HERE'S ALL YOU DO:

- 1 Today, buy a package of 7-MINIT Fluffy Frosting and a package of your favorite CAKE MIX at your neighborhood store.
- 2 Bake your cake. Then frost it with 7-MINIT Fluffy Frosting. Discover how quick and easy it is to make. You just add water and whip it up. It's perfect every time— heavenly smooth and luscious—last ing. You'll find it's more delicious than any homemade frosting you've ever made.
- 3 Then, write us a letter of twenty-five words or more telling how

you and your family liked 7-MINIT Fluffy Frosting. Be sure to include your name and address.

- 4 With your letter enclose the empty 7-MINIT Fluffy Frosting package and the top from your favorite Cake Mix box, showing price you paid. Mail to: 7 MINIT, Dept. FCM 1, 860 Madison Ave., New York 21, N. Y.

5 Immediately, WE'LL SEND YOU THE PRICE YOU PAID FOR YOUR CAKE MIX, not to exceed 40¢ IN CASH. Hurry! Limit one offer per family. Offer expires April 30, 1964.



We Make This AMAZING OFFER
Because We're So Sure You and
Your Family Will Like . . .

7-MINIT
Fluffy FROSTING



IN LHASA MARKET the variety of goods sold in open stalls (above) ranges from Indian glass and American corned beef and cosmetics to English whisky.

DALAI LAMA CONTINUED

which one is completely unfamiliar. Aufschnaiter and I were known as "Jacks-of-all-trades," and we had already solved some difficult problems. The best masons in Lhasa and the soldiers of the bodyguard were placed at my disposal. The project took several months.

Not long after this I was riding in the country when I was overhauled by an excited soldier of the bodyguard, who told me that they had been looking for me everywhere and that I must at once ride back to the Summer Garden. My first thought was that the motion picture apparatus was out of order. I immediately turned around and was soon back. At the door of the yellow gate a couple of monks were waiting. As soon as they saw me they signaled to me to hurry up, and when I reached them they ushered me into the Inner Garden. There Lobsang Samten awaited me. He whispered something to me and put a white scarf in my hand. The young ruler had overridden all conventions and had summoned me directly.

I at once went toward the motion picture theater, but before I could enter, the door opened from the inside and I was standing before the Living Buddha.

Conquering my surprise, I bowed deeply and handed him the scarf, as their ritual prescribes. He took it in his left hand and with an impulsive gesture blessed me with his right. It seemed less like the ceremonial laying on of hands than an impetuous expression of feeling on the part of a boy who had at last got his way. In the theater three abbots were waiting with bowed heads—the guardians of His Holiness. I did not fail to observe how coldly they returned my greeting. They certainly did not approve of his intrusion into their domain but they had not dared openly to oppose the will of the Dalai Lama.

The young ruler was all the more cordial. He pressed me to go to the projector and put on a film which he had long been wanting to see. It was a documentary film of the capitulation of Japan. He came with me to the apparatus and sent the abbots into the theater to act as spectators.

The eager apprentice

I MUST have seemed slow and clumsy in handling the projector, for he impatiently pushed me to one side. Taking hold of the film, he showed that he was a much more practiced operator than I was. He told me that he had been busy the whole winter learning how to work the apparatus and that he had even taken a projector to pieces and put it together again. As soon as the film was running well, he was delighted with the arrangements and could not praise my work too highly.

We sat together in the projecting room and looked at the picture through the peepholes in the wall. He took the greatest pleasure in what he saw and heard. Although it was the first time in his life that he had been alone with a white man, he was in no way

CONTINUED ON PAGE 29



HOME MOVIES

A good time is the best time for
Premium Quality Falstaff Beer

Whether you're presenting your best color movies...or just spending a neighborly evening with friends, a good time is the best time for Falstaff. For three generations, it has contributed to the pleasures of home life. So enjoy yours more with smooth 'n golden mellow Falstaff.

THE NATION'S TOAST FROM COAST TO COAST



*The Choicest
Product Of The
Brewers' Art*



FALSTAFF BREWING CORPORATION, ST. LOUIS, MO., OMAHA, NEBR., NEW ORLEANS, LA., SAN JOSE, CALIF.



Passengers on the river boats would point out the Colonel Higbee plantation. Aunt Jemima, cook there for many years, made it famous. Her pancakes, light and tender, had a matchless flavor.

Aunt Jemima Legend

You can't duplicate it in a homemade batter; you don't get it in any other mix...

the matchless

4-flour flavor of Aunt Jemima pancakes



FOR THE FINEST BUCKWHEATS
get Aunt Jemima in
the YELLOW BOX

Wheat, corn, rye and rice flours are blended in the treasured Aunt Jemima recipe... to give you the tenderest, best-tasting pancakes you ever had!



AUNT JEMIMA SAUSAGE ENVELOPES. Follow the Deluxe recipe on package for Aunt Jemima Pancakes, using $\frac{1}{4}$ cup measure for each pancake. Keep first pancakes hot in oven while baking others. Fold over hot pork sausages. Serve with warm applesauce.

Don McNeill's Breakfast Club is cheery; ABC Radio, weekdays.





ANNUAL PROCESSION of Dalai Lama to summer palace is seen by thousands. Attended by monks and soldiers, he rides in palanquin borne by 16 men.

DALAI LAMA CONTINUED

embarrassed or shy. While he was putting the next film on the reel, he pressed the microphone into my hands and insisted on my speaking into it. I invited the nonexistent public to remain in their seats, as the next film would present sensational scenes from Tibet. He laughed enthusiastically at the surprised and shocked faces of the monks when they heard my cheerful, disrespectful tones. Such light, unceremonious language had never been used in the presence of the Divine Ruler, but his gleaming eyes showed how he enjoyed the situation.

When the performance was over, the Dalai Lama opened the door leading into the theater, told the abbots that he did not need them any more and dismissed them with a wave of the hand. We cleared away the films and put the yellow covers on the machines. Then we sat down on a magnificent carpet in the theater, with the sun streaming through the open windows. He told me that he had long been planning this meeting. He was resolved to extend his knowledge beyond purely religious subjects, and it seemed to him that I was the only person who could help him to do so. He had no idea that I was a qualified teacher, and had he known this it would probably not have influenced him. He asked my age and was surprised to learn that I was only 37. Like many Tibetans he thought that my "yellow" hair was a sign of age.

Time passed swiftly. It seemed as if a dam had burst, so urgent and continuous was his flood of questions. I was astounded to see how much disconnected knowledge he had acquired out of books and newspapers. He possessed an English work on World War II in seven volumes, which he had had translated into Tibetan. He knew how to distinguish between different types of airplanes, automobiles and tanks. The names of personages like Churchill, Eisenhower and Molotov were familiar to him, but as he had nobody to put questions to, he often did not know how persons and events were connected with each other. Now he was happy because he had found someone to whom he could bring all the questions about which he had been puzzling for years.

Very modestly he took out an exercise book with all sorts of drawings on the cover and asked me to look at his work. To my surprise I saw that he had been transcribing the capital letters of the Latin alphabet. He insisted that I should immediately begin to teach him English, transcribing the pronunciation in elegant Tibetan characters. After five hours, when one of the abbots insisted on the Dalai Lama's having his dinner, I was excused. When I left him he shook my hand warmly—a new gesture for him.

The insatiable questioner

NEEDESS to say I was very happy in the new duties that had so suddenly fallen to my lot. On the same evening I looked up some reviews which contained details of the construction of jet planes, about which my young pupil had that day asked me questions which I could not answer. I had promised to give him

CONTINUED ON NEXT PAGE



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A HAMMOND ORGAN in a home says flattering things about the people who live there.

It says you appreciate not merely music . . . but music's most glorious voice. For on this instrument every chord is memorable.

It says you know how to make your own entertainment creatively.

It says you know how to relax . . . how to sit at the keyboard of the Hammond Organ and renew yourself against the tensions of your times.

It says you know how to give your children the foundation of a lifetime career, and the poise that comes from such accomplishment.

It says you are wise in the use of your spare time . . . enjoying the Hammond Organ every day in its infinite capacity to bring pleasure.

The best part: you can learn to play simple music on the Hammond Organ in a month or less. Thousands with little or no musical training have done it.

Price? Hammond Organs start at \$1285 f.o.b. Chicago (for the Spinnet, not shown) including built-in tone equipment and bench. Terms are flexible, and many dealers offer up to 3 years to pay.

Hear a demonstration of the Hammond Organ at your dealer's this week. Own it and know the glow of pride when friends exclaim: "Oooh! You have a Hammond Organ!"

Above: Home Model Hammond Organ, complete with two manuals and pedal keyboard. Price sent on request.

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when the KIRBY MAN arrives



Next to your husband, the Kirby Man can become pretty important in your life.

He's the gentleman who has brought something very close to "push-button housekeeping" to more than a million home-makers all over the country.

He's coming to see you soon. *Welcome him*—for he's got the answer to your problem of a bright spotless house without drudgery, even including care of those modern pastel things that are your pride and gloom.

When he rings, run, don't walk, to door or telephone. You'll be glad you welcomed him!

P.S. Be sure to ask him about the remarkable Kirby Handi-Butler

When you see this button, welcome your Kirby Man!

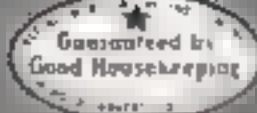
Kirby Men Needed

Some well-paid opportunities now open for qualified men and women. Full or part time, special training—no experience needed. Write to us.

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Home Sanitation since 1919



AT AGE 4, Dalai Lama is shown shortly before enthronement. In Tibet's theocracy he is king and high priest. In spiritual power he is exceeded only by Panchen Lama, who is selected similarly. Both are believed to possess the soul of a Buddha, which passes on to others when they die. When 13th Dalai Lama died in 1933, senior lamas read many omens before traveling some 300 miles to China to discover the reincarnated soul in a 2-year-old peasant child. Chinese overlords used to poison the Dalai Lama in his teens, but after Tibet became independent the 13th lived to be 57. The Dalai Lama's mother and father are also revered as holy by Tibet's faithful, shown great privileges.

DALAI LAMA CONTINUED

full explanations at our next meeting. As time went on I always prepared the materials for our lessons because I wanted to introduce some system into the instruction of this zealous student.

But the system kept breaking down because of his insatiable curiosity, which drove him to ask me questions that opened up whole new fields. For example, in order to be able to discuss the atom bomb, I had to tell him about the elements. That led to a formal discussion of metals, for which there is no generic word in Tibetan, so I had to go into details about the different sorts of metals—a subject which, of course, brought another avalanche of questions.

He continually astonished me by his powers of comprehension, his pertinacity and his industry. When I gave him for homework 10 sentences to translate, he usually showed up with 20. When I observed his zeal and thirst for knowledge, I felt quite ashamed at the thought of my own boyhood.

My young pupil was not yet in a position to travel, but that did not diminish his interest in world geography, which was soon his favorite subject. I drew for him great maps of the world and others of Asia and Tibet. We had a globe, with the help of which I was able to explain to him why the New York radio was 11 hours behind Lhasa. He was particularly proud of the fact that the highest summit in the world was on his frontier.

I had already reason to approve of his taste. Once when we were selecting an assortment of films he put all the comic and purely entertaining pictures to one side and asked me to exchange them. His interest was in educational, military and cultural pictures. Once I thought to please him by showing him a particularly beautiful film about horses. He watched quietly until it was over. "It is funny," he then said, "that the former body [meaning thereby the 13th Dalai Lama] was so fond of horses and that they mean so little to me."

At this time he was growing very quickly, and he displayed the usual characteristics of the awkward age. Once he let his exposure meter fall and was as unhappy about it as a poor child who has broken his only toy. I had to remind him that he was the ruler of a great dominion and that he could buy as many exposure meters as he liked. His modesty was a source of perpetual wonder to me. The average child of a rich tradesman was certainly far more spoiled than he was in his ascetic and lonely life.

CONTINUED ON PAGE 62

Now—afety

POWER STEERING

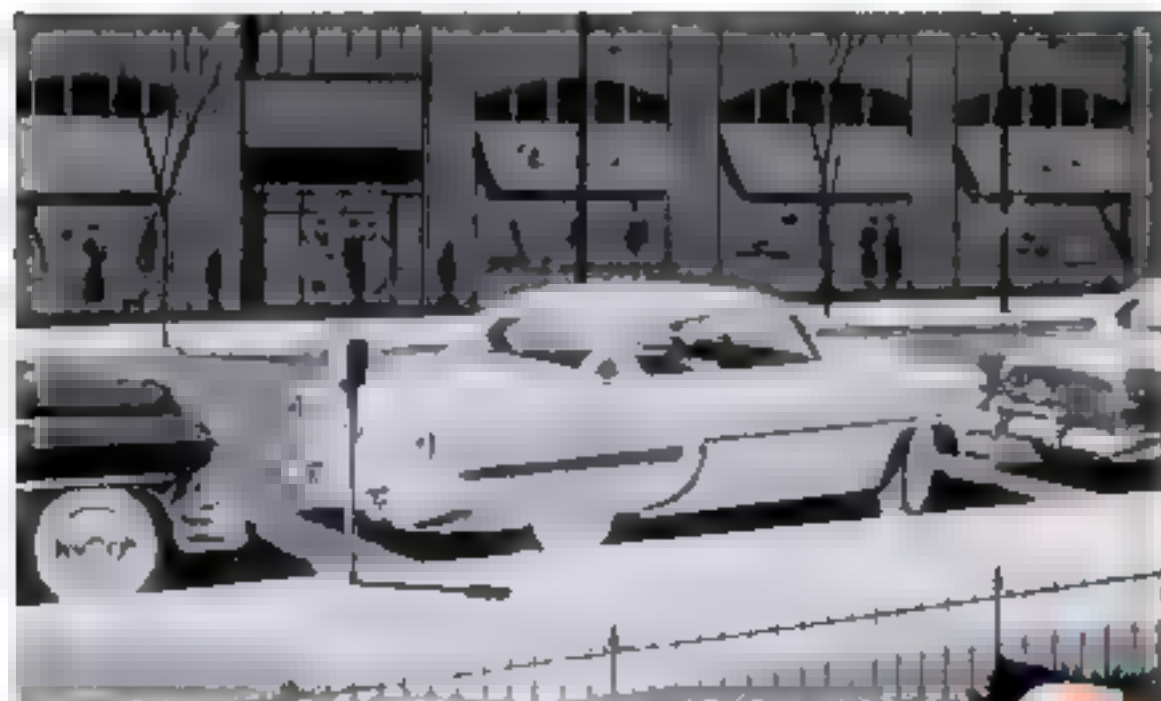
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a New Low Price!



FAR GREATER SAFETY IN EMERGENCIES

Safety Power Steering resists wheel twist; prevents loss of control due to road shocks, soft shoulders, even high-speed blowouts!



FAR GREATER DRIVING and PARKING EASE

*Now anyone can maneuver a two-ton car with fingertip freedom—yet *Safety Power Steering* always retains the secure "feel of the road"!*



Yes, the finest Power Steering now costs *far less*—thanks to skyrocketing demand and production! If you want *the most driving ease and security for your family—the most trade-in value later on—the smartest buy you can make today* is a new General Motors car with *Safety Power Steering* by Saginaw, available only as original factory equipment. Be sure to get a demonstration when you test-drive the 1954 models! *Saginaw Steering Gear Division, General Motors Corporation, Saginaw, Michigan.*

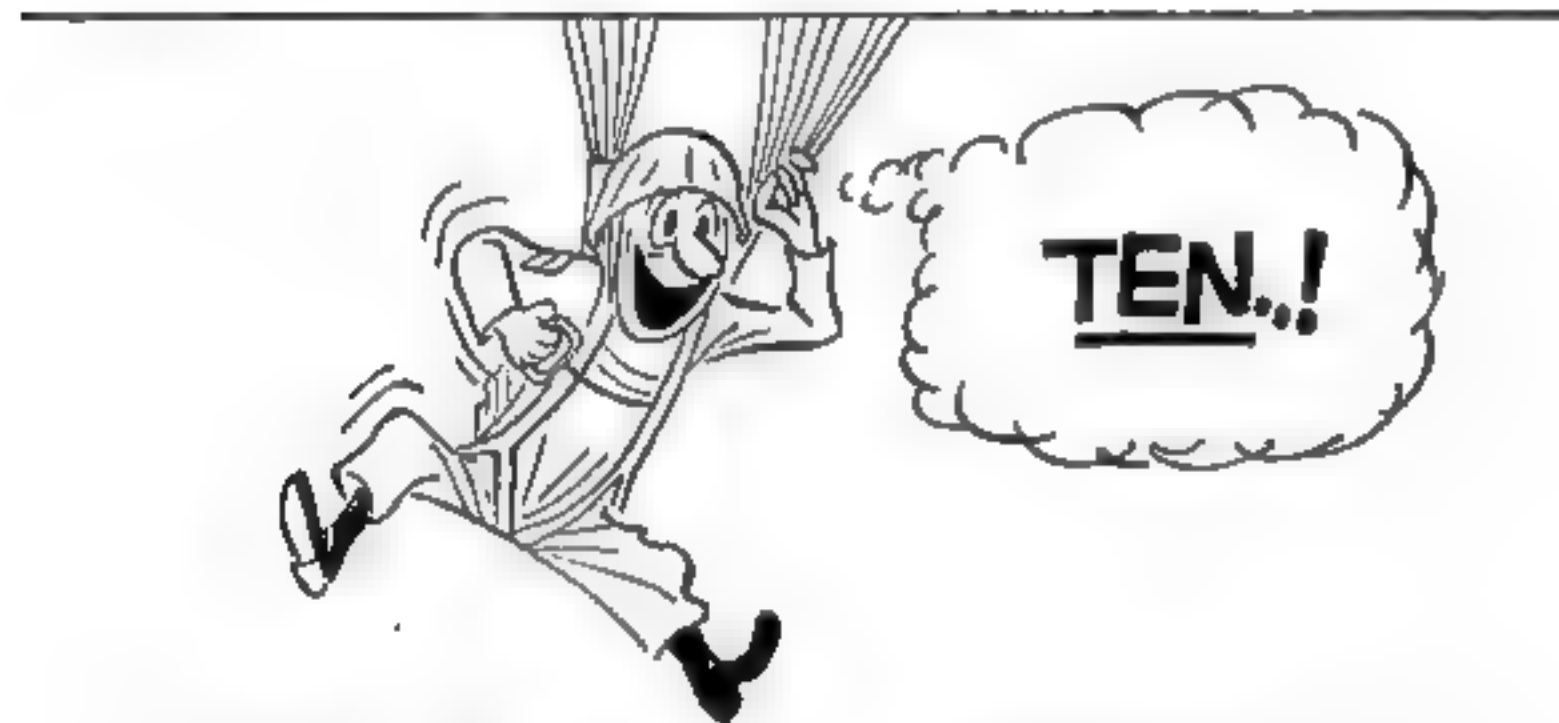
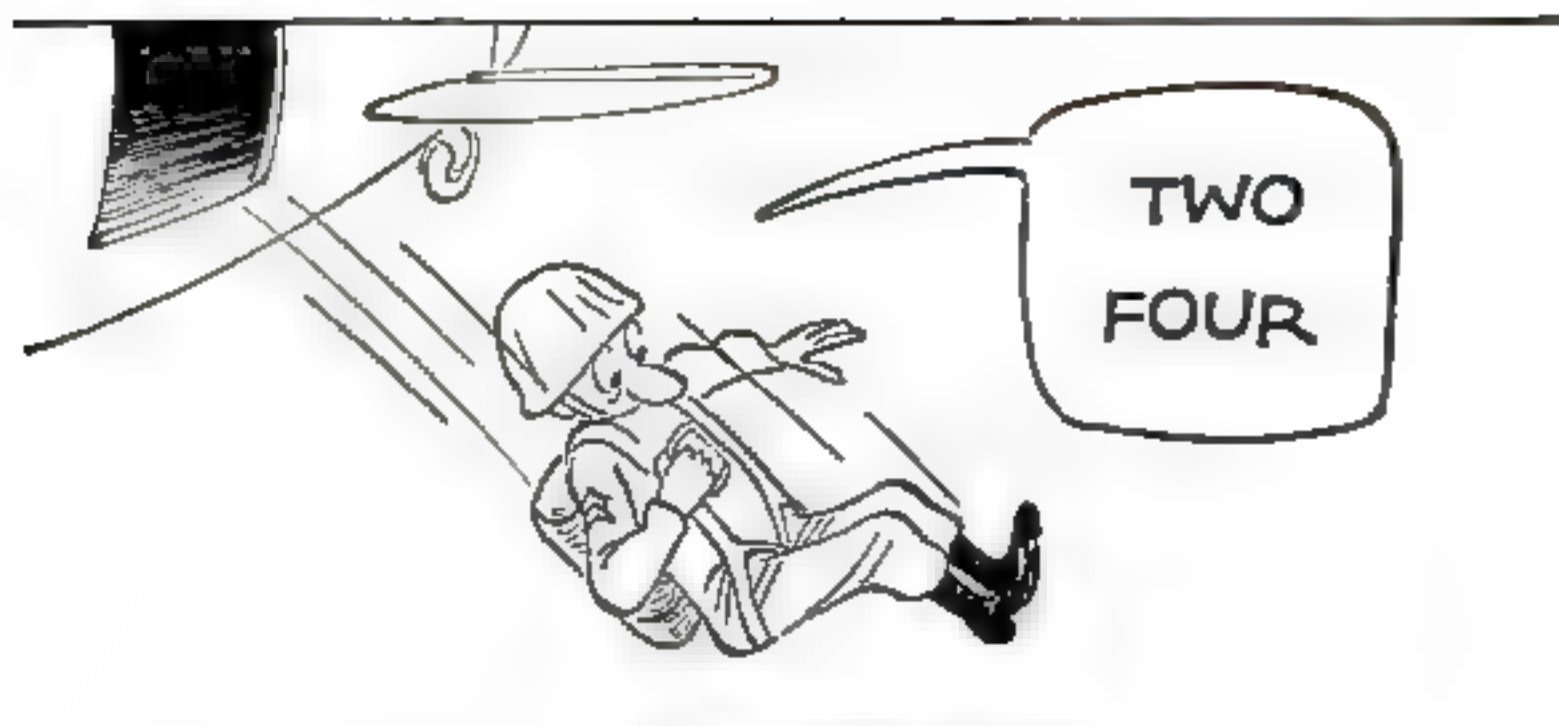


afety

POWER STEERING

BY *Saginaw*

FEATURED BY: CHEVROLET • PONTIAC • OLDSMOBILE • BUICK • CADILLAC



NO OTHER TEA COUNTS!

No other tea gives you such zesty-rich flavor! It's the new leaf, the young leaf, the flavor leaf that does it. No other tea has the exclusive "Tidy-Pak"—each tea bag in its own individual envelope! Be sure it's Tender Leaf Brand Tea—get the Bright Red Box with the Smiling Cups!



DALAI LAMA CONTINUED

On one occasion, as I came through the yellow gate into the Inner Garden, I thought I noticed the Dalai Lama looking out for me from his little window, and it seemed he was wearing glasses. This surprised me because I had never seen him with spectacles on. In answer to my question he told me that he had for some time been having difficulty with his eyes and had therefore taken to wearing glasses for study. His brother had procured him a pair through the Indian Legation. He had probably damaged his eyes when he was a child, when his only pleasure was to look for hours through his telescope at Lhasa. Moreover continuous reading and study in the twilight of the Potala were not exactly calculated to improve his sight.

On this occasion he was wearing a red jacket over his monastic robe. He had designed it himself and was very proud of it, but he allowed himself to wear it only in his leisure moments. The chief novelty about this garment was the fact that it had pockets. Tibetan clothes do not have any. Now, like every Western boy of his age, he was able to carry about with him a knife, a corkscrew, sweets, etc. He also now kept his colored pencils and fountain pens in his pockets and was, doubtless, the first Dalai Lama to take pleasure in such things.

He was also much interested in his collection of watches and clocks, some of which he had inherited from the 13th Dalai Lama. His favorite piece was an Omega calendar clock which he had bought with his own money. During his minority he could only dispose of the money which was left as an offering at the foot of his throne. Later on, the treasure vaults would be open to him and, as ruler of Tibet, he would become one of the world's richest men.

The hours I spent with my pupil were as instructive for me as they were for him. He taught me a great deal about the history of Tibet and the teachings of Buddha. We often used to argue for hours on religious subjects, and he was convinced that he would succeed in converting me to Buddhism. He was also convinced that by virtue of his faith and by performing the prescribed rites he would be able to make things happen in far-distant places. When he had made sufficient progress, he said, he would send me off somewhere and direct me from Lhasa. I remember saying to him with a laugh, "All right, when you can do that, I will become a Buddhist too."

[The Dalai Lama never got a chance to try it. The invasion by Red China on Oct. 7, 1950, and his own flight toward India, intervened. After the inevitable defeat of his primitive troops, the Dalai Lama decided that, as spiritual ruler, he had to return to Lhasa. There the red hammer and sickle now flies over his capital. Armored cars run through the streets. And there is famine in the once-happy land, which cannot feed the armies of occupation and its own people as well. In effect, the Dalai Lama is a prisoner.—ED.]

I left Lhasa in the middle of November 1950, before the Dalai Lama had fled. The sky was overcast when I embarked in my little yakskin boat which was to take me down the Kyi Chhu. My friends and servants stood on the bank and waved to me sadly. The current caught the boat and they were soon out of sight. Floating down the river, I could not keep my eyes off the Potala; I knew the Dalai Lama was on the roof looking at me through his telescope.

I still follow all that happens in Tibet with deep interest, for part of my being is indissolubly linked with that dear country. Wherever I live, I shall feel homesick for Tibet. I often think I can still hear the wild cries of geese and cranes and the beating of their wings as they fly over Lhasa in the clear cold moonlight of a Tibetan night.



IN FUTILE FLIGHT from invading Reds, Dalai Lama's sedan chair is borne across Tibet. God-King later came sadly home, lives in uneasy truce with Reds.



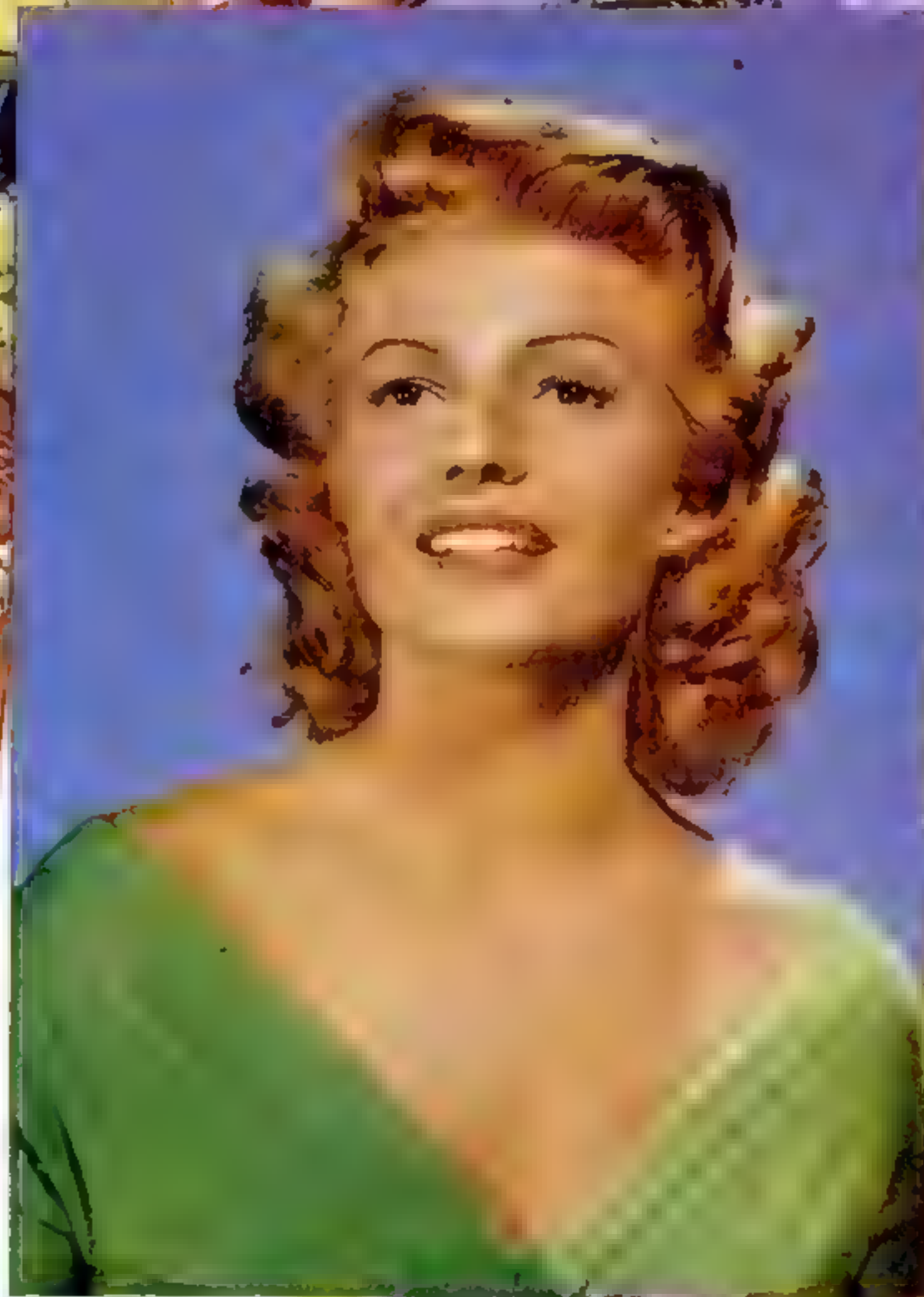
You'll Love **Brach's Toffee**

Rita Hayworth

Starring in "MISS SADIE THOMPSON". . .

A Beckwith Production, Columbia Technicolor Picture

Brach's Toffee is candy that you'll "Mmmm-m-mm" about! Taste how smooth, how tender-chewy! Three rich flavors—Rum Butter, Vanilla, Coconut Vanilla. And double-wrapped Brach's Toffee is as fresh when you serve it as the day it's made.



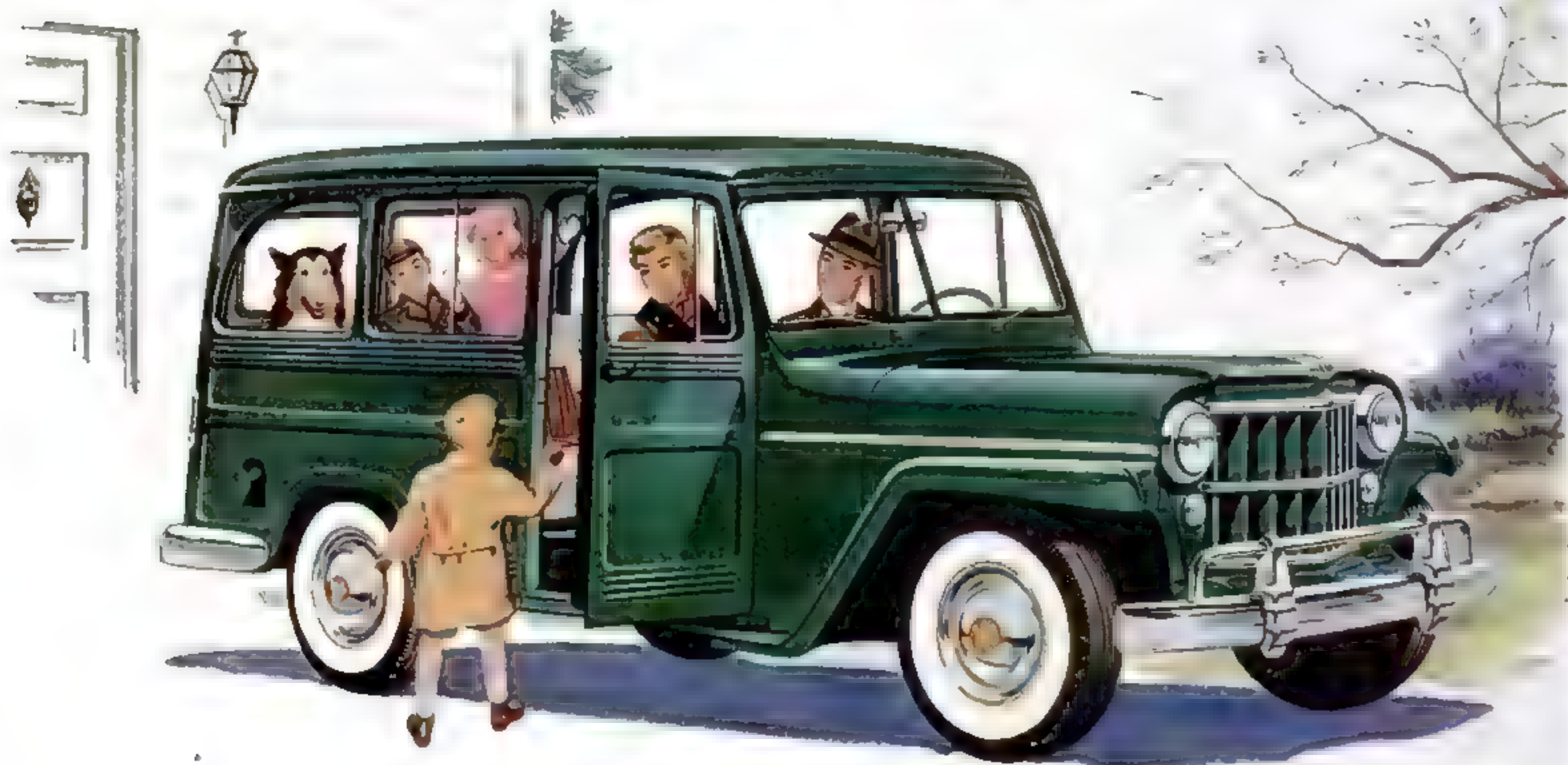
Brach's *Famous* **Toffee**

Brach's Toffee is Featured This Month in Stores Everywhere

FROM THE MAKERS OF THE BELOVED 'JEEP'



KNOWN AND RESPECTED AROUND THE WORLD



The Common-sense Car that Leads a **Double Life**



WIDER OPENING
TOP DOOR GIVES
WIDEST OPENING OF
ANY STATION WAGON
IN ITS FIELD

AS A FAMILY CAR, the Willys DeLuxe Station Wagon is amazingly compatible with the needs of most American families. With easily cleaned seats, sides and floors it is a good companion to children and pets. Carries "problem" items (such as bicycles and lawnmowers) without removing seats. Comfort for 6 adults, with huge luggage space behind rear seats. And its powerful *Hurricane* engine is so economical to run. Why not let your Willys dealer fit one of these into *your* life today?

AS A BUSINESS OR WORK CAR, more than 100 cubic feet of usable space is available for tools or bulky packages. Seats lift out easily. Interior can be cleaned almost as easily as a kitchen sink!

K Why not start this motoring season with the car that gives you *double utility; low first cost; low operating costs; high trade-in value?* At your Willys dealer now.
Kaiser-Willys Sales Division—Willys Motors, Inc., Toledo, O.

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STATION WAGON

- With 6-Cylinder *HURRICANE* Engine, 2-Wheel Drive
- With 4-Cylinder *HURRICANE* Engine, 4-Wheel Drive



AS DUSK SETTLES OVER THE GULF OF MEXICO, OIL WORKERS WHO WORKED ON RIGS ALL DAY COME OUT TO FISH FOR TROUT AROUND A NATURAL GAS FLARE

TROUT FISHING BY GASLIGHT

Flares in offshore oil fields create bountiful nighttime fishing grounds for Texas riggers and drillers

As crude oil is pumped from offshore wells in the Gulf of Mexico, unusable natural gas is fed to outlets on the surface and burned off. The soaring flames attract swarms of insects which drop into the water and in turn attract schools of speckled sea trout. The fish, in their turn, attract off-duty oil riggers and drillers, creating

picturesque scenes such as this one at Shamrock Cove (*above*), some 12 miles out of Corpus Christi. Fishing from oil company supply boats and using glass rods and small pieces of shrimp for bait, the oil workers have been getting magnificent results. They average 20 to 30 two- to three-pound fish per man each night.

Try *Elsie's* favorite 5-minute lunch!



Vera-Sharp Doggies

Here's a happy luncheon dish... and what a partner with a perfect cup of coffee!

Borden's extra-long Process Cheese Slices make DOGGIE sandwiches quick as a wink! Here's all you do...

1. Split frankfurter rolls.
2. Cut strips of Borden's Vera-Sharp Cheese Slices lengthwise to cover the rolls. No patching, no piecing, no wasteful trimmings with these extra-long Borden's Slices. Cut off just what you need—the

rest always stays tightly wrapped.

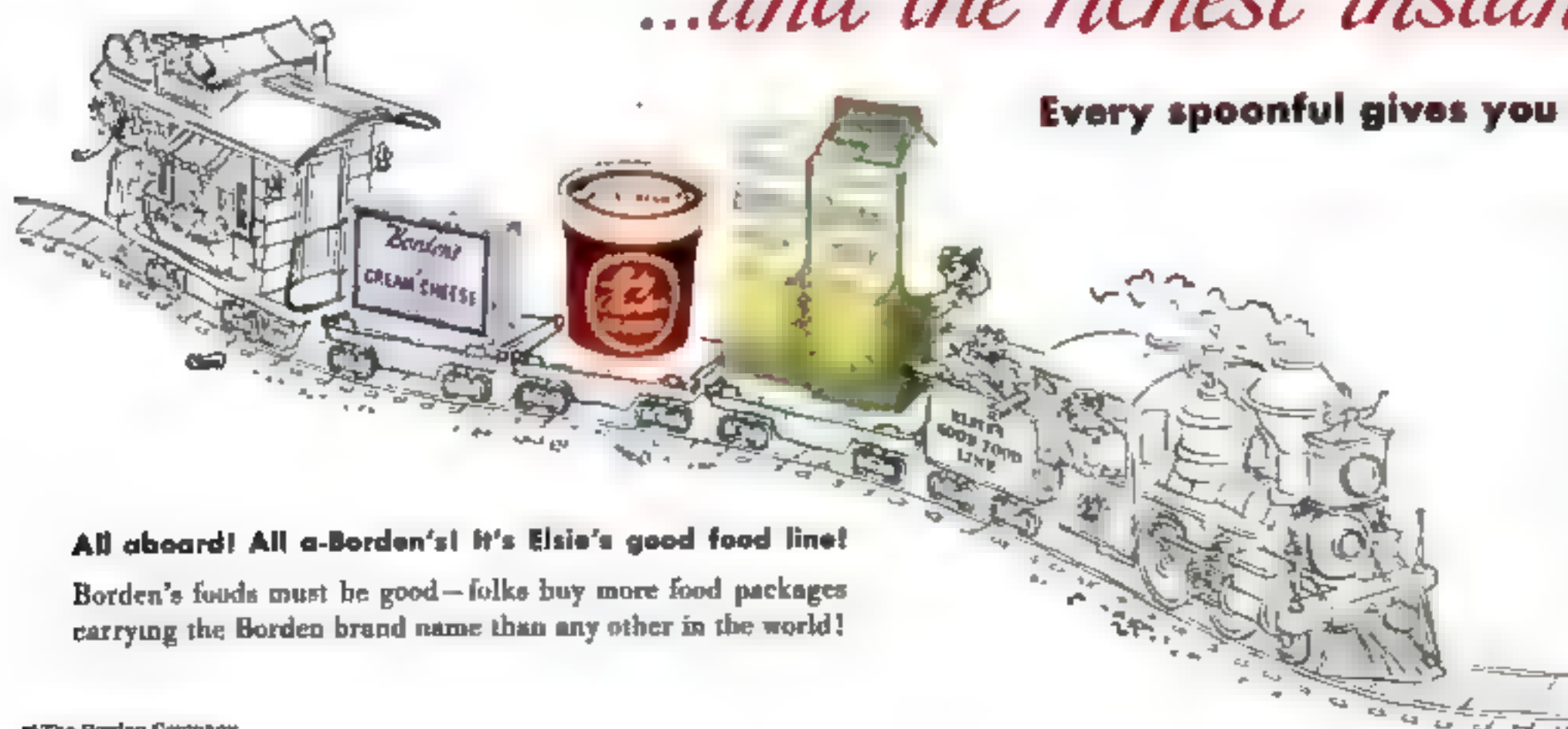
3. Now pop under broiler till cheese melts and bubbles. That's all—but mmm, what a lunch with Borden's rich coffee. And no wonder everybody loves Vera-Sharp—it has the nippy flavor of aged American Cheddar cheese.

You'll find Vera-Sharp, together with Borden's American, Pimento and Swiss Slices, in the dairy case of most food stores. Look for these extra-long, extra-convenient slices today!



...and the richest instant coffee of them all

Every spoonful gives you up to 33% MORE FLAVOR!



All aboard! All a-Borden's! It's Elsie's good food line! Borden's foods must be good—folks buy more food packages carrying the Borden brand name than any other in the world!

NEW Flavor-Control Process
gives you richer coffee in every cup

OTHER INSTANTS—
HOLLOW
BUBBLES

Other instant coffees are bubbles filled with air—contain both air and coffee.

BORDEN'S—
SOLID
COFFEE
CRYSTALS

Borden's crystals are all coffee—no air—solid flavor through and through.

Borden's saves you money, too—25¢ or more, compared to every pound of ground coffee.



EERIEST SCENE in the play comes when an aged fortuneteller (Tamara Davkarhanova) presages tragedy for ex-Bullfighter Domingo (Hurd Hatfield).

'BULLFIGHT'

A matador's downfall is enacted off Broadway with high spirits and a low budget

Forty blocks south of Broadway, where play producers are more daring and shows are less costly, a crop of new theaters is offering New York some of the season's best entertainment. A colorful example is *Bullfight* by Leslie Stevens, which tumbles all over the tiny stage of the Theater de Lys. *Bullfight* tells of the downfall of Domingo, an ex-matador, who has

retired because of cowardice and then swaggers back to his native Mexican village pretending he has been a big shot in the U.S. Around the haunted figure of Domingo swirls a high-spirited pageant—staged simply but with imagination—of bull-ring scenes, cock-fights and cafe brawls, which turns the promising drama of *Bullfight* into exciting theater.

NATURE

IN HER OWN SURE WAY

put the
flavor in

P.A.



PRINCE ALBERT

America's largest-selling smoking tobacco



Why 9 out of 10
barbers recommend
JERIS

**LARGEST SELLING GREASELESS
ANTISEPTIC HAIR TONIC**

Especially formulated for men who dislike greasy, oil dressings, Jeris is recommended by 9 out of 10 barbers; is America's largest-selling greaseless, antiseptic hair tonic.

Jeris never leaves hair with a plastered-down look, never stains hat bands, linen or furniture. Jeris and massage stimulate the scalp, help improve circulation, kill dandruff germs* on contact.

Women admire its clean, crisp, masculine fragrance. Get Jeris Antiseptic Hair Tonic at drug counters, today. For professional applications, see your barber.

OTHER FINE JERIS PRODUCTS INCLUDE:
JERIS LANOLIN ENRICHED HAIR OIL ... JERIS TALC
... FOAM, THE BEFORE-AND-AFTER SHAVE LOTION
JERIS CREAM HAIR TONIC

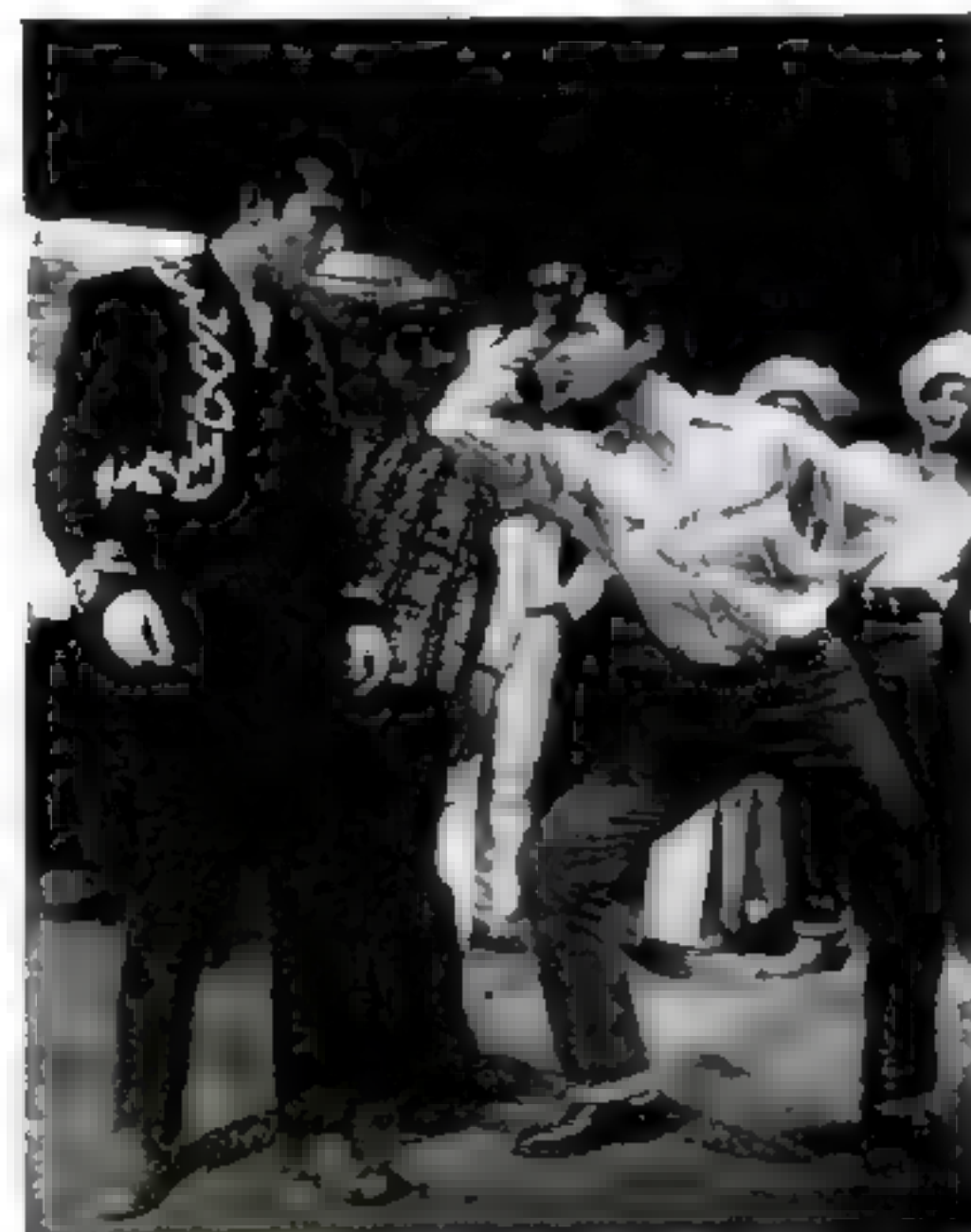
*Pityrosporum Ovale, which many authorities recognize as the cause of infectious dandruff.

'BULLFIGHT' CONTINUED



BULLFIGHT LESSONS with wooden "bull" are given by Domingo (left) to his adoring brother Esteban (Mario

Alcalde). Watched by Esteban's wife, Domingo urges the boy to become a bigtime matador with a showy technique.



RIDICULE is heaped on Domingo by villager who discovers that his boasts of being a U.S. prizefighter are lies.



VENGEANCE on the jeering villagers is taken by Esteban, who attempts to kill one of his brother's detractors.

CONTINUED ON PAGE 102

CHIROPODISTS SAY:

It's 10 to 1 you cut your toe-nails wrong!

Ask any chiropodist. Ask your doctor or child's pediatrician. Incorrect toe-nail trimming is the major cause of ingrown toe-nails. This can lead to painful infection and serious foot disorders. For persistent foot trouble — see your Chiropodist.



This way is **WRONG!**

Never round your toe-nails at the corners — for two reasons. (1) — Nails grow back most quickly where they are cut. (2) — When the nail is longest at the center, the pressure on the toe forces the whole nail back and into the flesh at the side. Rounding your nails invites ingrown toe-nails.



This way is **RIGHT!**

Always trim them straight across with a slight dip in the center. Then nails will grow straight as nature intended them to grow. Now when your toes slide forward to the front of the shoe, there is no undue pressure on the nail. **TRIM TOE-NAIL CLIPPER** automatically shapes and trims toe-nails this correct way.

Now, at last **TRIM**... the first safe, easy-to-use, precision Toe-Nail Clipper CUTS YOUR TOE-NAILS RIGHT not like finger-nails!

Here is the easiest way to cut toe-nails you've ever seen. There has never been anything like **TRIM TOE-NAIL CLIPPER**. It is faster and safer than expensive scissors and even high-priced professional clippers. It is a miracle of simple, safe design.



Look at the picture of **TRIM**'s new, exclusive "chiropedic" cutting edge. It is shaped just the opposite of a finger-nail clipper. With one snip, it automatically gives even the thickest nails a cor-

rect, smooth cut. And it not only cuts toe-nails fast — it cuts them right!

Until now, you had to pay from \$2.50 to \$6.50 for an instrument that would cut toe-nails — but not correctly! Now **TRIM** does it safer, faster and correctly at the remarkably low price of ...

\$1.00
no Fed. tax

TRIM helps avoid nylon snags! Cutting toe-nails the right way stops the pressure of pointed nails against your hose. After you trim your nails, smooth them with the handy **TRIM** toe-nail file, attached to the clipper. Your nylons will give much longer wear. Note, too, that this file curves gently, making it perfect for under-nail grooming.



TRIM is made of tempered cutlery steel with a lasting and lustrous chrome finish.

Every **TOE-NAIL CLIPPER** is sold with this

UNCONDITIONAL GUARANTEE

We will at any time replace any **TRIM** Toe-Nail Clipper that does not give perfect service.

pat. pending



A twist and **TRIM** opens — its spring-tension lever locks into place for complete safety. So easy to use with either hand.

Serves the entire family — lasts for life!

Manufactured by The W. E. Bassett Co. in the New England tradition of fine instrument making — at Derby, Conn.
World's Largest Manufacturers of Precision Nail-Cutting Instruments ©

■ Look for **TRIM** FINGER-NAIL CLIPPER, the largest-selling nail clipper in the world and **TRIM** STAINLESS STEEL NAIL FILE, the finest made regardless of price.





BEFORE HOUSEHOLD TASKS...
 "It really protects. My hands chap easily, and On Hand helped especially with my dry skin."
Mrs. C. D., Berwick, Pa.



PREVENTS "DETERGENT HANDS"...
 "My hands were in terrible condition from being in strong detergents all day. Cracks were vastly improved after a day or two."
Mrs. E. T., Brooklyn, N. Y.

NOTHING LIKE IT!

The first and only
 before Hand Lotion
 with AQUASIL*

*onHand**

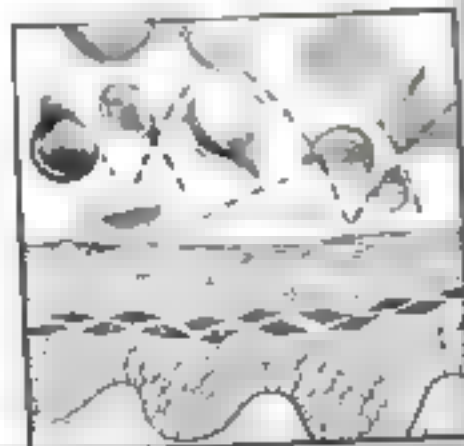
PROTECTS HANDS LIKE A MAGIC GLOVE

Invisible coating actually
 repels water... detergents!
 Guards skin's natural oils!

ON HAND is not a cosmetic—but
 an exclusive new silicone *protec-
 tive* lotion to be used *before* work.
 Helps prevent dry skin before it
 starts! Non-greasy, mildly anti-
 septic. *Quick self-spreading action*
 makes rubbing in unnecessary.

HOW AQUASIL PROTECTS:

Invisible film of
 silicone makes
 water bounce right
 off... without the
 pore-clogging re-
 sults found in
 other creams and
 lotions



100 NO Fed. Tax
 You save 20¢

Enough for 80 to
 100 applications

Sentheric
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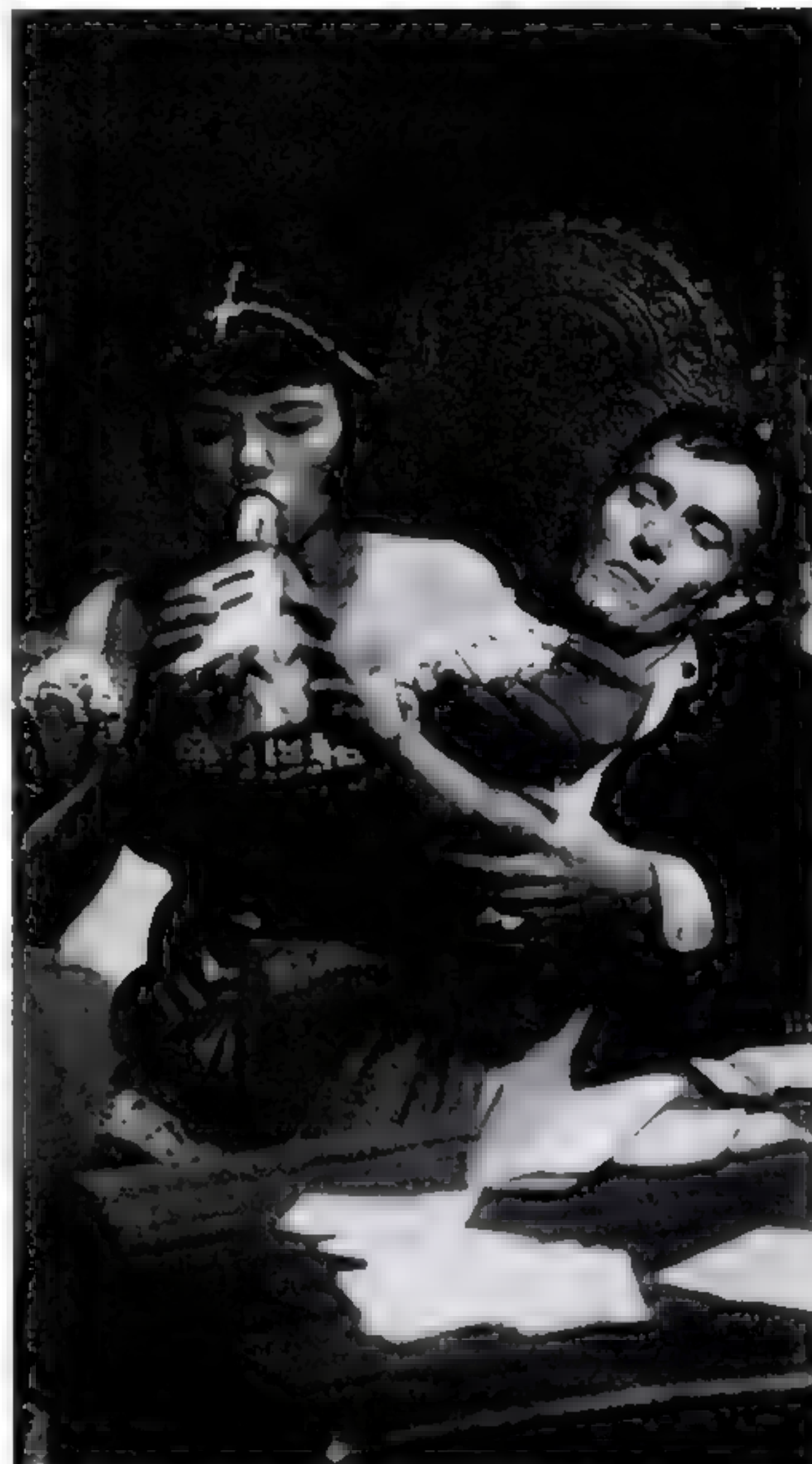
BEFORE OFFICE CHORES
 "Prevents deep stains from
 ribbons and carbons... keeps
 my nails from chipping."
Mrs. D. D., Bronx, N. Y.



BEFORE OUTDOOR WORK
 "Kept my hands from chap-
 ping... even when I washed
 my car in the coldest weather"
Mr. H. M., Westport, Conn.

*trademark

'BULLFIGHT' CONTINUED



CORRUPTING INFLUENCE of Domingo extends to girl who worships
 him after townspeople scorn him. Blind in her infatuation for the figure he
 cuts, she gets drunk with him (*above*), thereby inviting her own degradation.



DEADLY INFLUENCE of Domingo overtakes Esteban in the bull ring
 when, distracted by his brother's cry, "Keep your head up!" he is killed by
 charging bull. Domingo is now doomed irrevocably to misery and disgrace.



SIR CEDRIC HARDWICKE: THE FINEST FINISHED STAR OF STAGE AND SCREEN

"VODKA IS LIKE A WOMAN," observes Sir Cedric Hardwicke

"The better you know Smirnoff Vodka, the more you appreciate its infinite variety." *Smirnoff is full of surprises!* It makes the driest, most sophisticated of Martinis, yet blends perfectly with refreshing soft drinks and fruit juices! *Smirnoff* is always smooth, agreeable . . . ready, almost singlehandedly, to make "The Martini with the Marvelous Taste" . . . or a Collins that really lets you taste its fruit! Just use Smirnoff instead of gin.

it leaves you breathless...

Smirnoff
THE GREATEST NAME IN VODKA

80 or 100 Proof Made from 100% grain neutral spirits. Ste. Pierre Smirnoff Fls. Inc., Hartford, Conn.



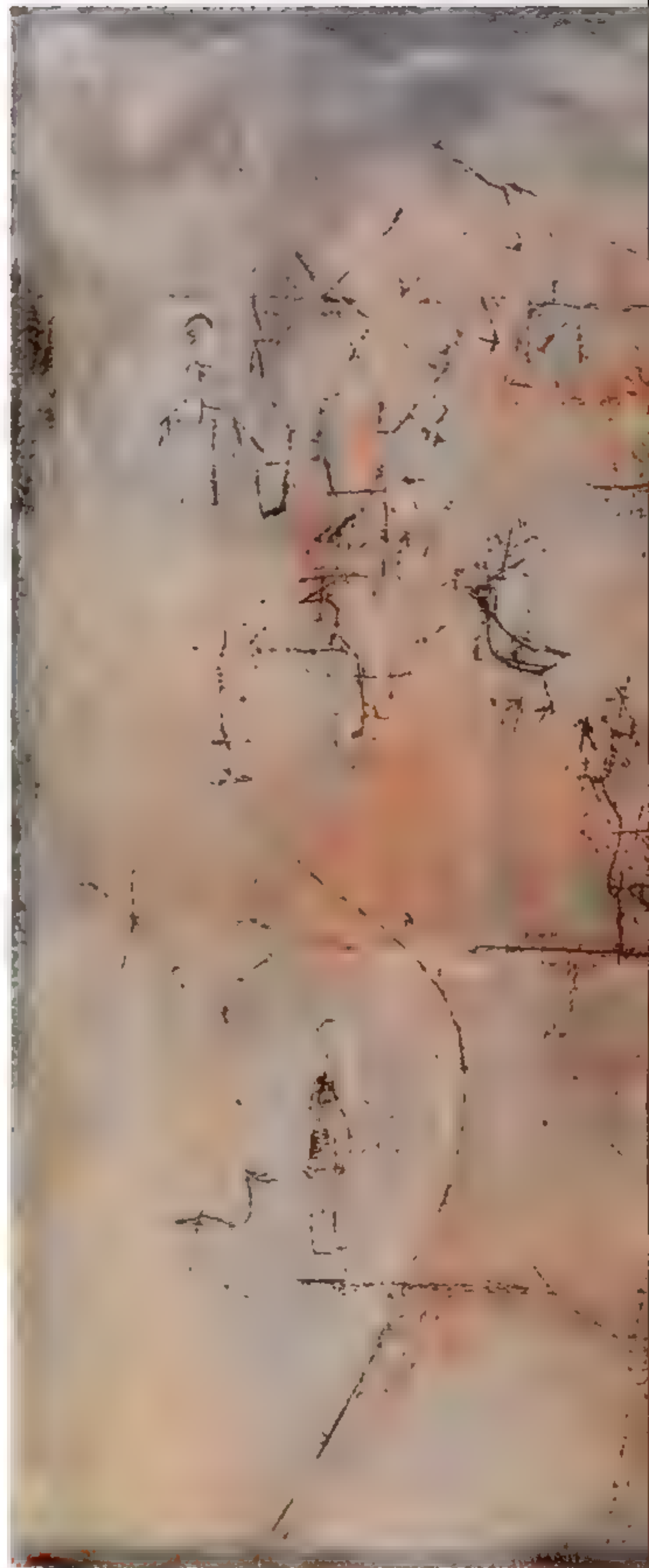
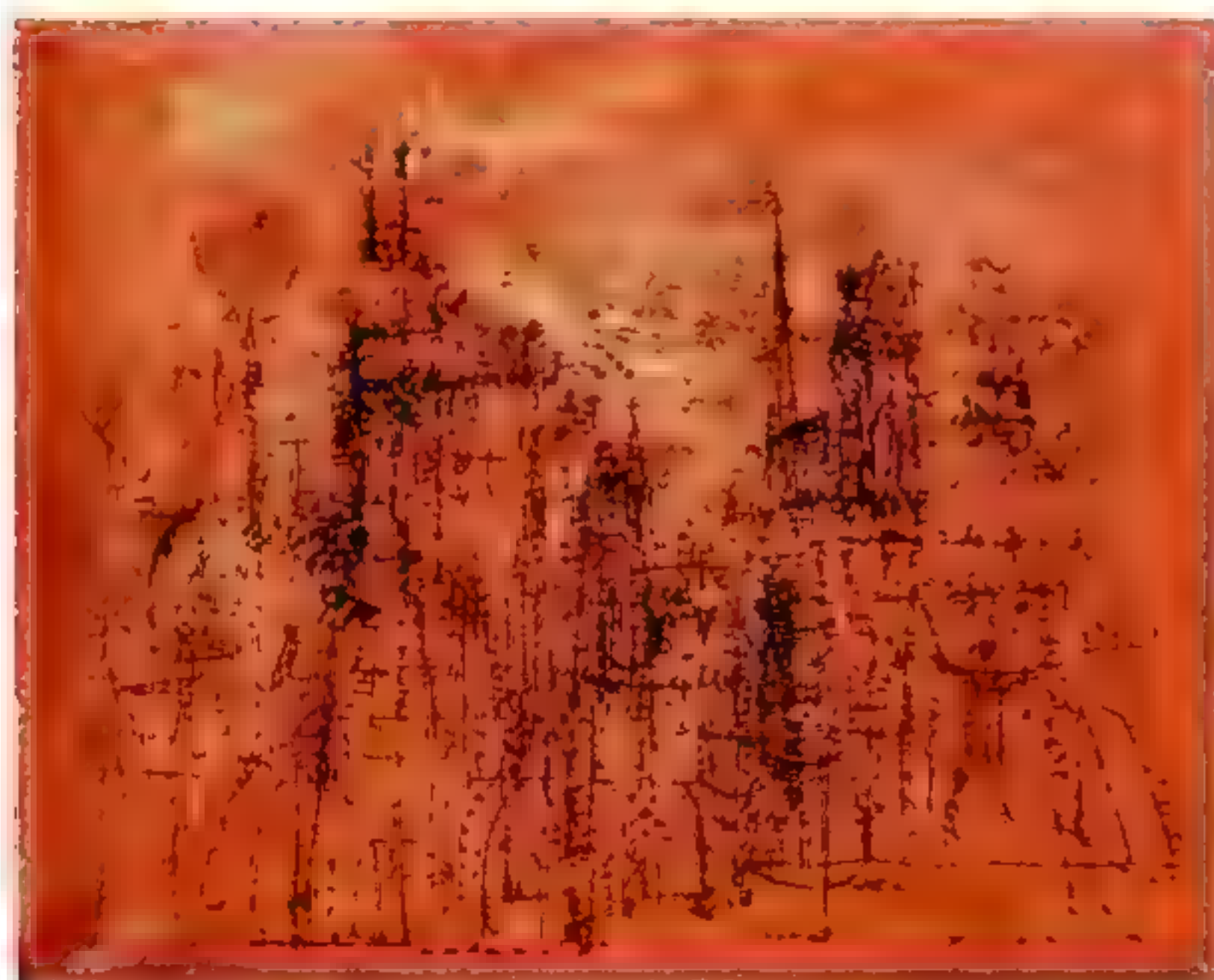
ARTIST AND WIFE occupy studio on the Left Bank. Wife Shieh Ching-lan is studying music, but cannot play the Chinese instruments shown on window sill.

Artist from East Is a Hit in West

ZAO WOU-KI PAINTS A POETIC WORLD

In the past five years a transplanted painter from China has become one of the big successes of the international art world. At 33, Zao Wou-ki has already had major exhibitions in Paris, London, Rotterdam and Rome, as well as two sellout shows in New York. His paintings, which two years ago were unknown to the U.S., now bring up to \$2,000.

Zao Wou-ki was earmarked for success early in his career. As a student in Hangchow he showed such ability that he was made professor of art at the age of 21. But though he was a master of the ancient Chinese style, Zao Wou-ki was attracted by the art of contemporary Europe and, in 1948, he left China for France to study the modern masters of the West first-hand. Settled in Paris, Zao Wou-ki began to create on canvas fragile images of Gothic cities and pagoda-like temples, misty Alps and delicate Chinese animals. Critics call his paintings a poetic mingling of Chinese and modern European art. Zao Wou-ki calls them simply "my world."

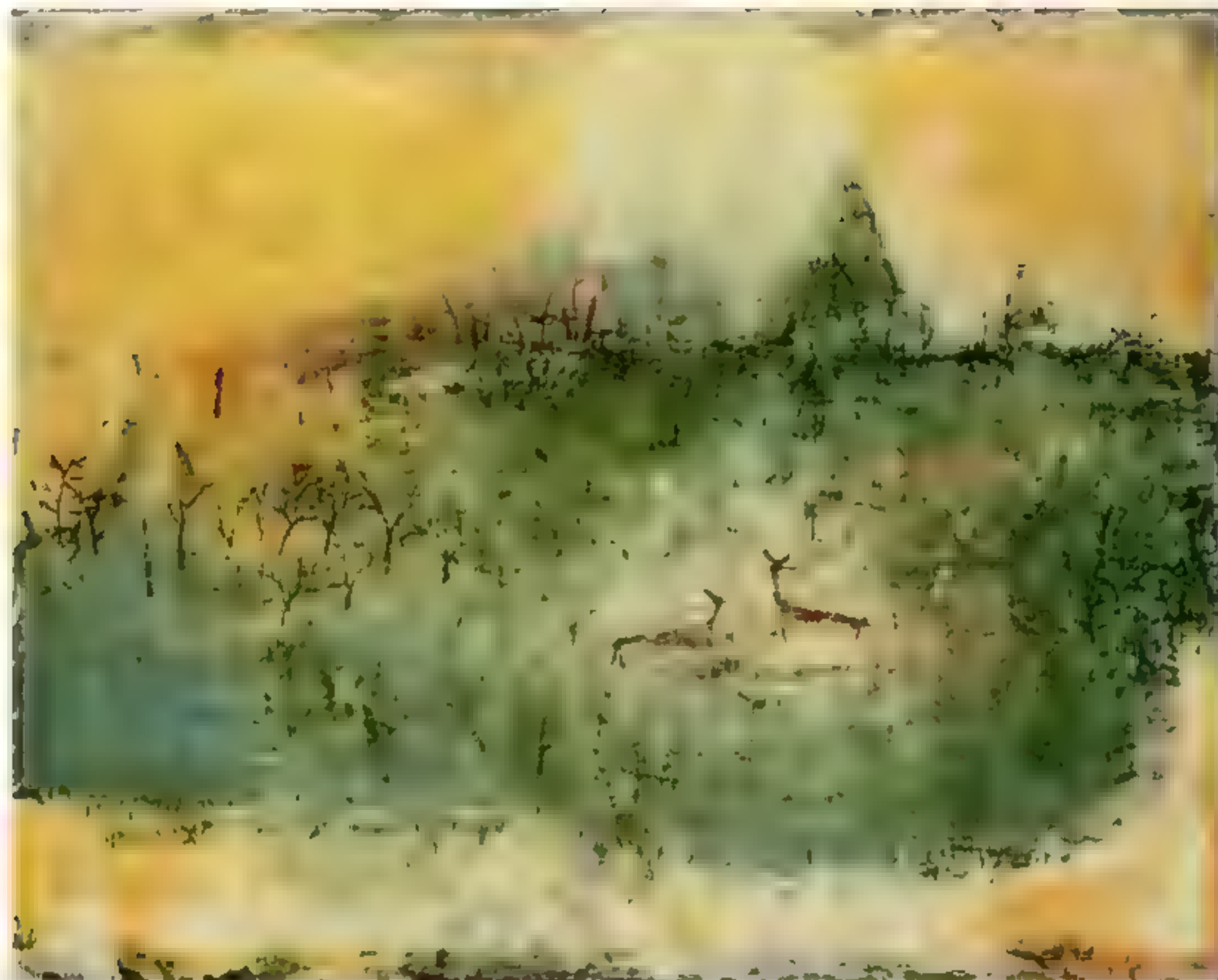


PAUL NE TRIGERE COLLECTION

CRIMSON CITY, painted in 1962, suggests the intricate tracings of a spiderweb on a Chinese-red lacquered box. Zao Wou-ki painted Gothic spires and arches after studying medieval buildings of France, enveloped them in a fiery setting because "at the time I felt in the mood for red."



GOLDEN CITY, emerging like a mirage from a blue haze, is Zao Wou-ki's impression of Venice, produced in his studio after a trip to Italy in 1952. In the center, phantom pigeons pick their way across the broad square while in the background church and palaces lift their ghostly domes and towers into the air.



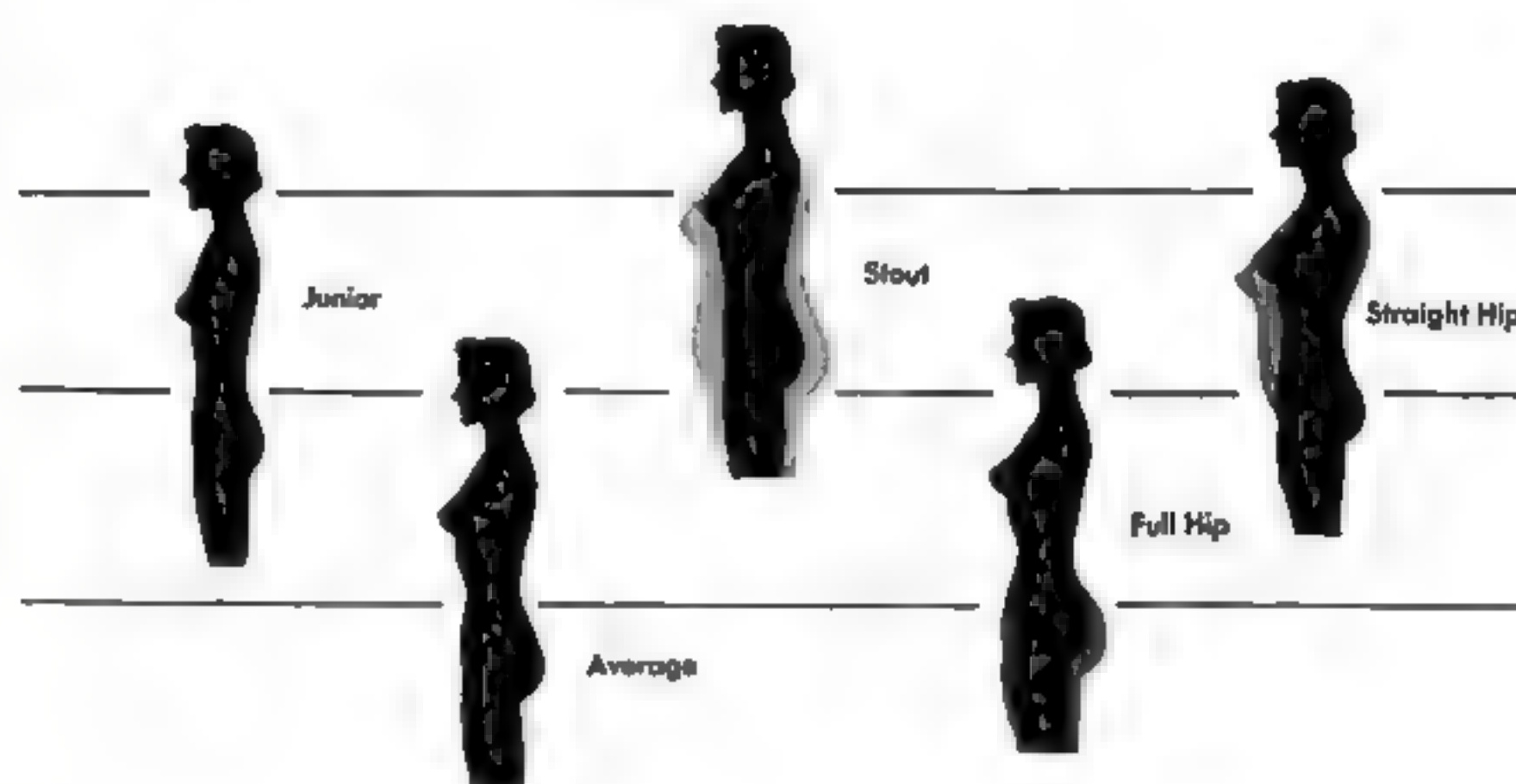
STILL LIFE is a wood and glaze study in monochrome by a Japanese artist. The composition is a still life scene with a dark, textured background.



SPECTRAL FISH, fruit and flower, were also painted from imagination by artist who emphasized incorporeal effect of objects to produce dreamlike still life.

Formfit asks this important beauty question...

Which figure type are you?



47 out of every 100 women are dissatisfied with the way their girdles fit, according to a recent impartial study. To assure you perfect fit, Formfit makes a wide range of styles and designs for every figure type!

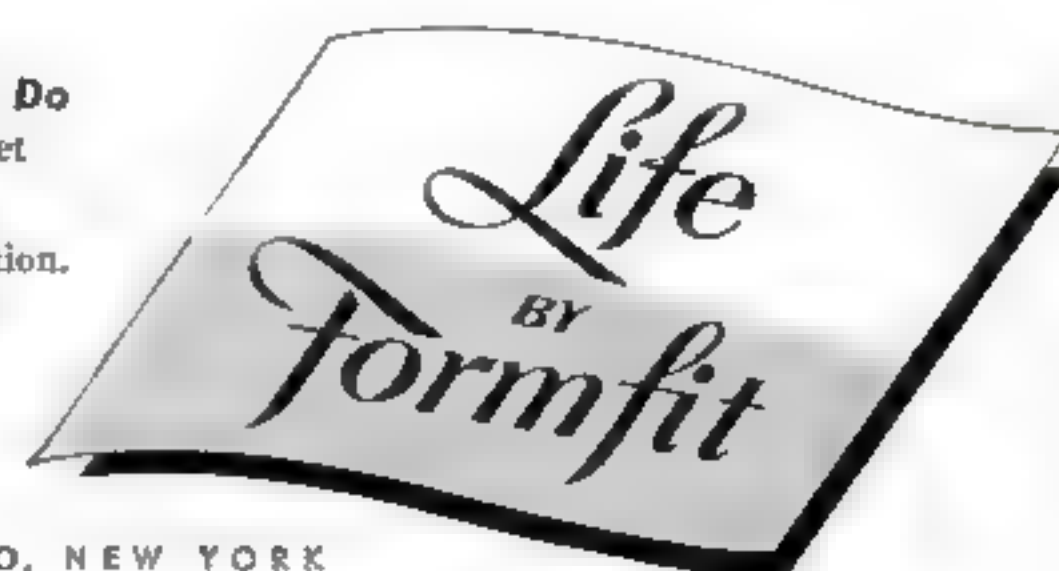
Unless a girdle fits perfectly, it cannot give you the lovely, young lines you want, or the comfort and freedom you need. But remember — no one type of girdle can fit all women perfectly, because no two women have exactly the same figure. That's the reason 47 out of every 100 are not satisfied with the fit of their girdles. And that's also the reason why Formfit makes Life Girdles in such a wide variety of styles and designs!

Regardless of your figure type, there's a Life Girdle to fit as if custom-made for you, in Formfit's vast selection. And it's this incomparable *personalized fit* that makes a Life Girdle more flattering, more comfortable than any other you may have worn!

So if you are one of the 47 out of every 100 women who are not satisfied with the fit of their girdles, be fitted in a Life Girdle at any of the better stores. You'll *see* and *feel* the difference instantly. You'll find your tummy flattened, waist slimmed, hips smoothed — with comfort that's truly a revelation!

#1196 Life Girdle shown, average 16", nylon elastic net with satin elastic front and back panels, \$16.50. Other styles from \$7.50. #586 Life Bra shown, slash front in nylon lace, \$4.00. Other Life styles from \$1.25.

FREE! "Your Figure Type — What To Do About It"—This new, informative Formfit booklet shows how you can determine *your* figure type, and how to make the most of it. No cost or obligation. Mailed in plain envelope. Write to the Formfit Company, 400 S. Peoria, Chicago 7, Ill.



THE FORMFIT COMPANY, CHICAGO, NEW YORK

America and its railroads have pushed ahead together



THIS CURRIER & IVES PICTURE, "Snow Bound," gives you some idea of how tracks were cleared of snow in the early days—with shovel and muscle. But even then the railroads did, and paid for, the job of getting passengers and freight through.



TODAY THE JOB is done more efficiently. It still takes manpower but the railroads have provided snowplows — some of them huge rotary affairs with blades 11 feet long, which throw the snow to one side of the track, so that the things which Americans use and need every day may be kept moving. But it still is a railroad job — done by railroad men and paid for by railroad money!

...AND TOGETHER THEY KEEP THE WAY OPEN TO BETTER THINGS!

In the last century, railroads literally opened up the continent to the uses of mankind. Great new sources of raw materials were developed — and railroads carried them where they could best be used. As population grew and industries developed, railroads delivered the products of factory to farm and town and

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IN CAGE AT CHICAGO ZOO, 13-DAY-OLD ZERO SHOWS WATERMELON MARKINGS THAT CHARACTERIZE A BABY TAPIR. AT ONE YEAR HE WILL BE DULL GRAY

A 13-DAY-OLD TAPIR'S BOW

The odd little animal above is the first "spring" baby born at Chicago's Brookfield Zoo. He is a tapir, an animal often described as a pig that started out to be an elephant and then changed its mind. He is a distant relative of both the horse and the rhinoceros. This tapir's mother and father are both types of tapirs which come from Brazil, where they use their elongated

proboscises to hook leaves and fruits. The baby tapir gets most of his food by nursing, and his undeveloped snout makes him look more like a hyena with a swollen nose than like his parents (*next page*). But he makes up for his looks with cute squeaking noises that sound something like a mouse or a small bird. Because he was born on a bitterly cold day, his name is Zero.

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Tapir CONTINUED



PROTECTING ZERO from visitors who get too close, his mother (left), father (center) and 2-year-old brother Cracker raise noses over the new baby.



IGNORING ZERO, rest of family eat around him as he dozes in middle of cage. He frequently uses their food, mostly oats and vegetables, for a mattress.

Which Hot Toddy has the Calvert?

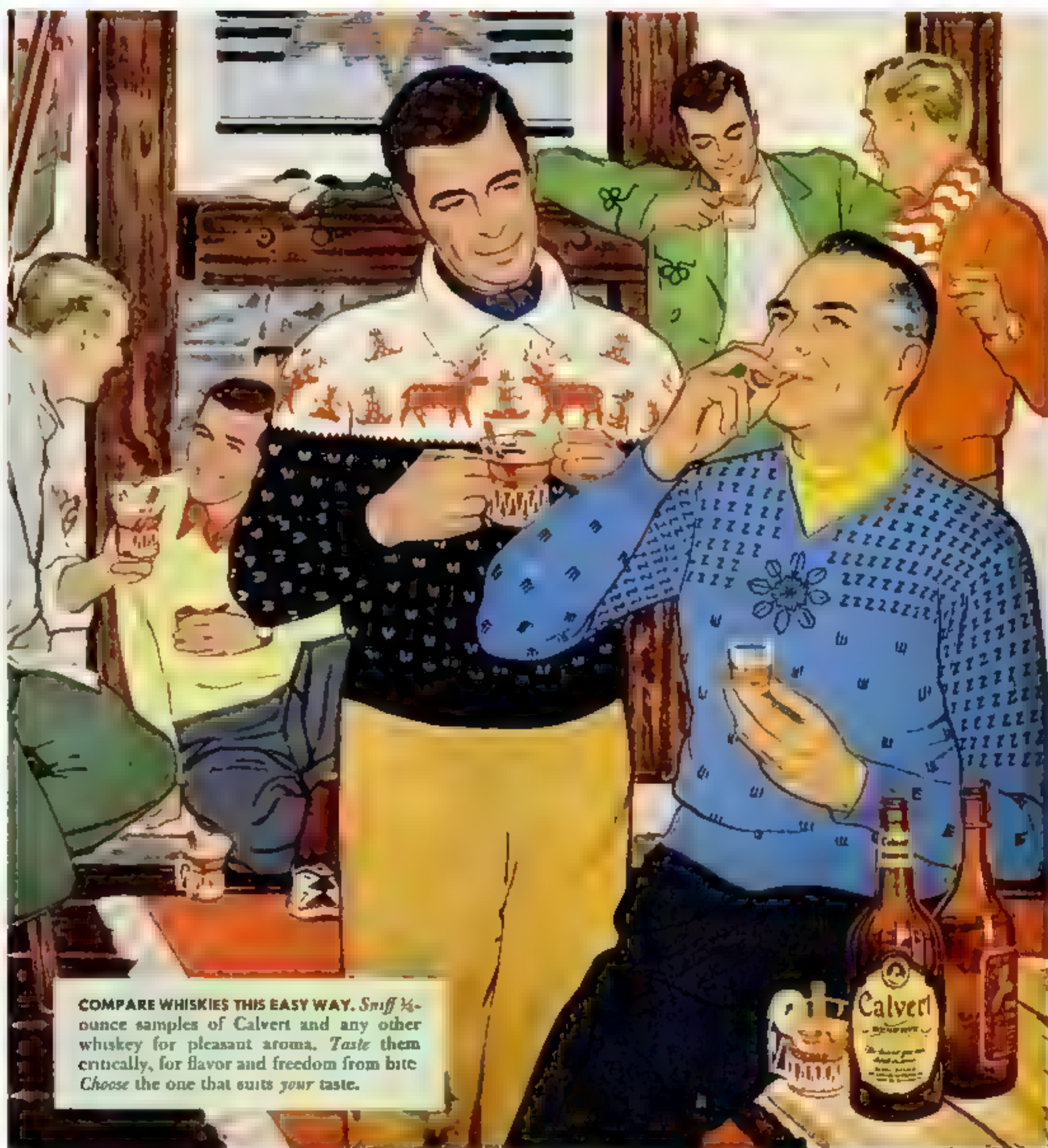


DON'T GET ALL STEAMED UP when we tell you that there truly is a difference. Although these Hot Toddies both look delicious and are equally spiced with cloves and cinnamon, your taste could tell which one has the smoother, mellower Calvert Reserve.

No drink can taste better than *the whiskey you put into it*. That's why we suggest you compare the flavor and smoothness of Calvert with your present brand. Test them, like the man in the picture, and then pick the whiskey you really like best.

Once you do, we're sure that your next whiskey drink will be made with smoother, better tasting Calvert!

TEST BEFORE — AND ENJOY THIS HOT TODDY MORE!
In Hot Toddy Mug or Old Fashioned glass dissolve 2 tps. of sugar with splash of hot water. Add lemon slice, cloves, cinnamon stick and 1½-ozs. of smooth Calvert. Fill with boiling water, sprinkle with nutmeg, stir well and enjoy!



COMPARE WHISKIES THIS EASY WAY. Sniff ¼-ounce samples of Calvert and any other whiskey for pleasant aroma. Taste them critically, for flavor and freedom from bite. Choose the one that suits your taste.

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***No other cigarette...with or without filters...
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All the rich flavor and aroma are yours...*without the need for taste-
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A WEIRD NEW FILM WORLD

Jules Verne movie produces 20,000 headaches under sea

PHOTOGRAPHED FOR LIFE BY PETER STACKPOLE

As if movie-making in sunniest Hollywood and darkest Africa were not difficult enough, a Walt Disney location crew is now filming one 30 feet under water. In the Caribbean, off Nassau, Bahamas, 83 actor-divers, cameramen, grips, propmen, professional salvage men, lifeguards and directors are trying to make their CinemaScope version of Jules Verne's science-fiction classic, *20,000 Leagues Under the Sea*, as authentic as possible. The result has been the greatest underwater venture in film history.

Daily the crew has to cope with choppy surface, undersea turbulence, leaky air valves on diving equipment, a complicated communications system and sunlight that seems invariably to hide whenever all the other conditions are right. Toughest problem has been the diving gear itself; a new type had to be invented to clothe the fabled *Nautilus* crew—Victorian-looking (see cover) yet practical and self-contained because that was the way Jules Verne imagined it for his mythical hero, Captain Nemo.



CAMERA CUSTODIAN

Florida Salvage Expert Eddie Ciesinski bolts down the specially waterproofed, self-powered Mitchell camera whose safety, plus that of the cameraman,

who operates it, is his outlook. Like most experienced "skin divers" (those without suits and surface airlines) Ciesinski works best upside down.



DIRECTOR OF OPERATIONS

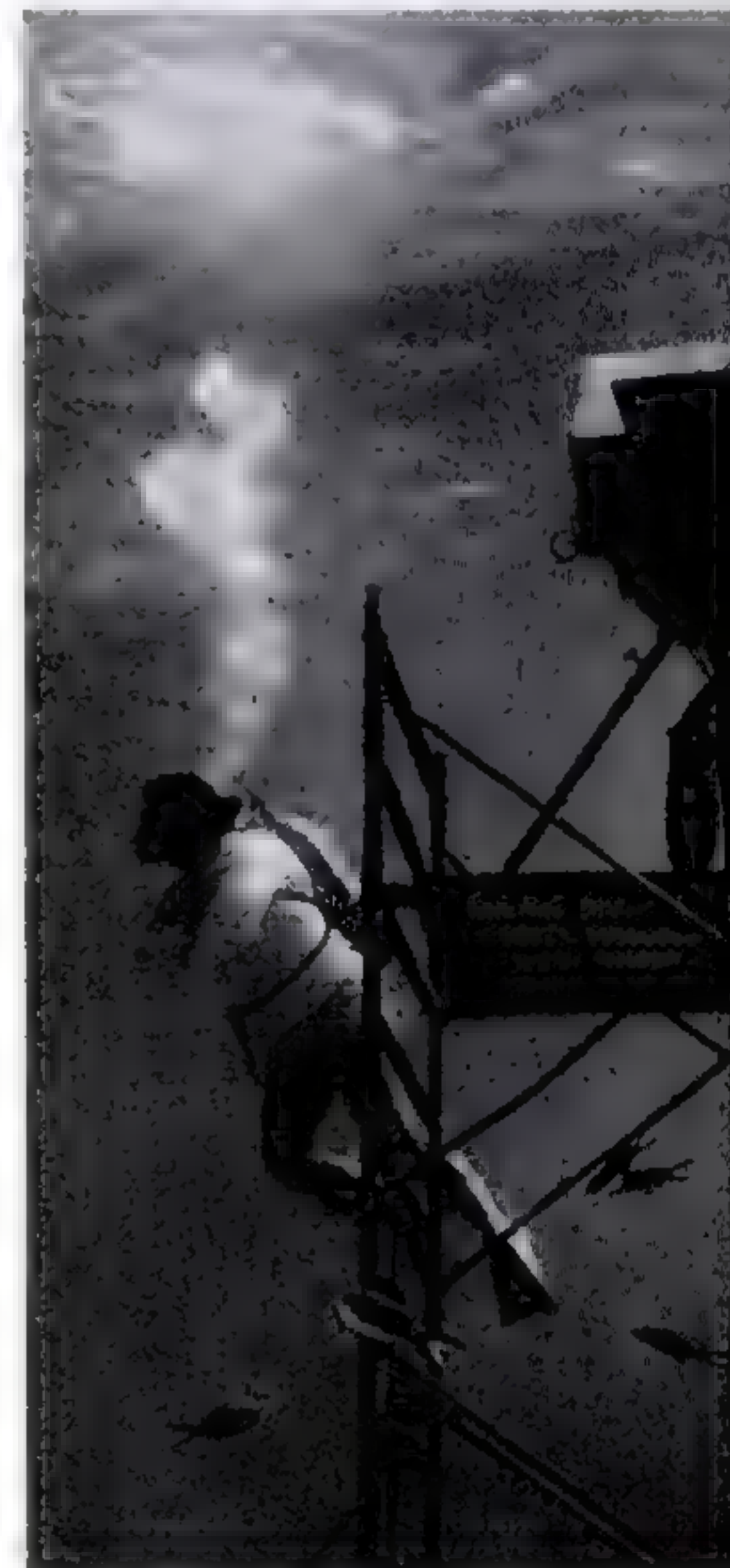
Underwater Veteran Fred Zendar, writing waterproof instructions in grease crayon to cameraman (right), is in absolute control over entire Disney

undersea operation. A former life guard and Navy master diver, Zendar worked out unique Jules Verne diving gear, constantly checked safety of the crew.



DIRECTORS'

Chief Cameraman Till Gallani, Director Fleischer and Underwater Coordinator Zendar come up to the surface to discuss changes in shooting plans when



CAMERAMAN

Surrounded by some of the swarms of fish that kibitz the whole operation, Disney cameramen prepare to shoot a scene in CinemaScope Technicolor.



CONFERENCE

the hand signals and side... 30 feet below get... on a... The... necessarily to... out and... long,



AND CREW

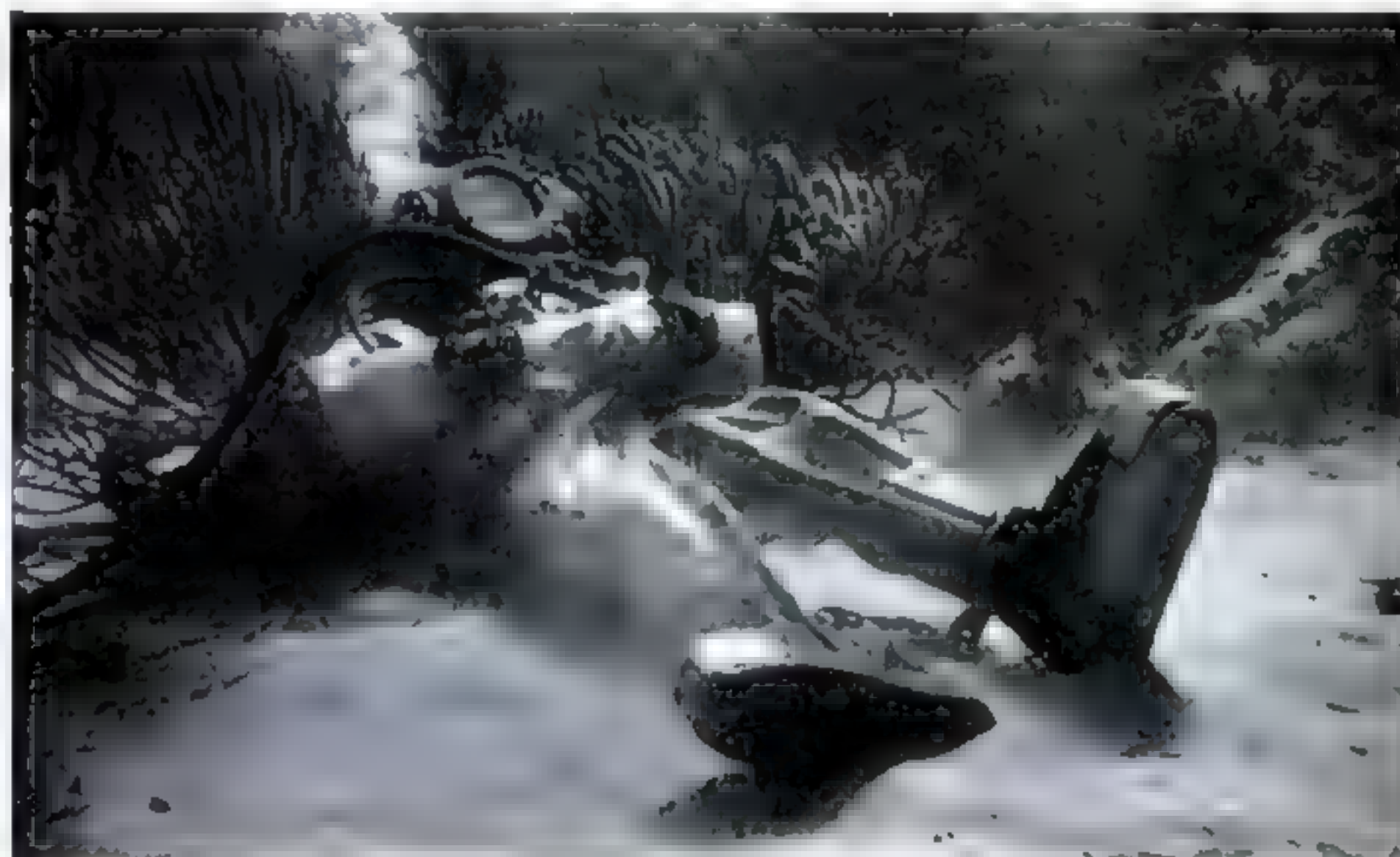
Chief Water Safety Man Rube Wright, in woolen longjohns (left) stays high on camera scaffolding to spot any emergency signals from actor-divers.



DIRECTOR

Levitating gently near pressurized... light meter floats upward in a... Director Robert Fleischer waits while camera crew becom...

on stand in (background). On his first underwater movie assignment Fleischer wears only one air tank for greater maneuverability, surfaces frequently.



COMMUNICATIONS CHIEF

Only diver in a regulation suit with surface air lines and a boat in telephone. Silver Man Frank Higgins stays on the bottom most of the day. On...

his feet and violent firing operations, he often lies down for a nap during the long waits when long divers are kept out of water by bad weather.



PROPMAN

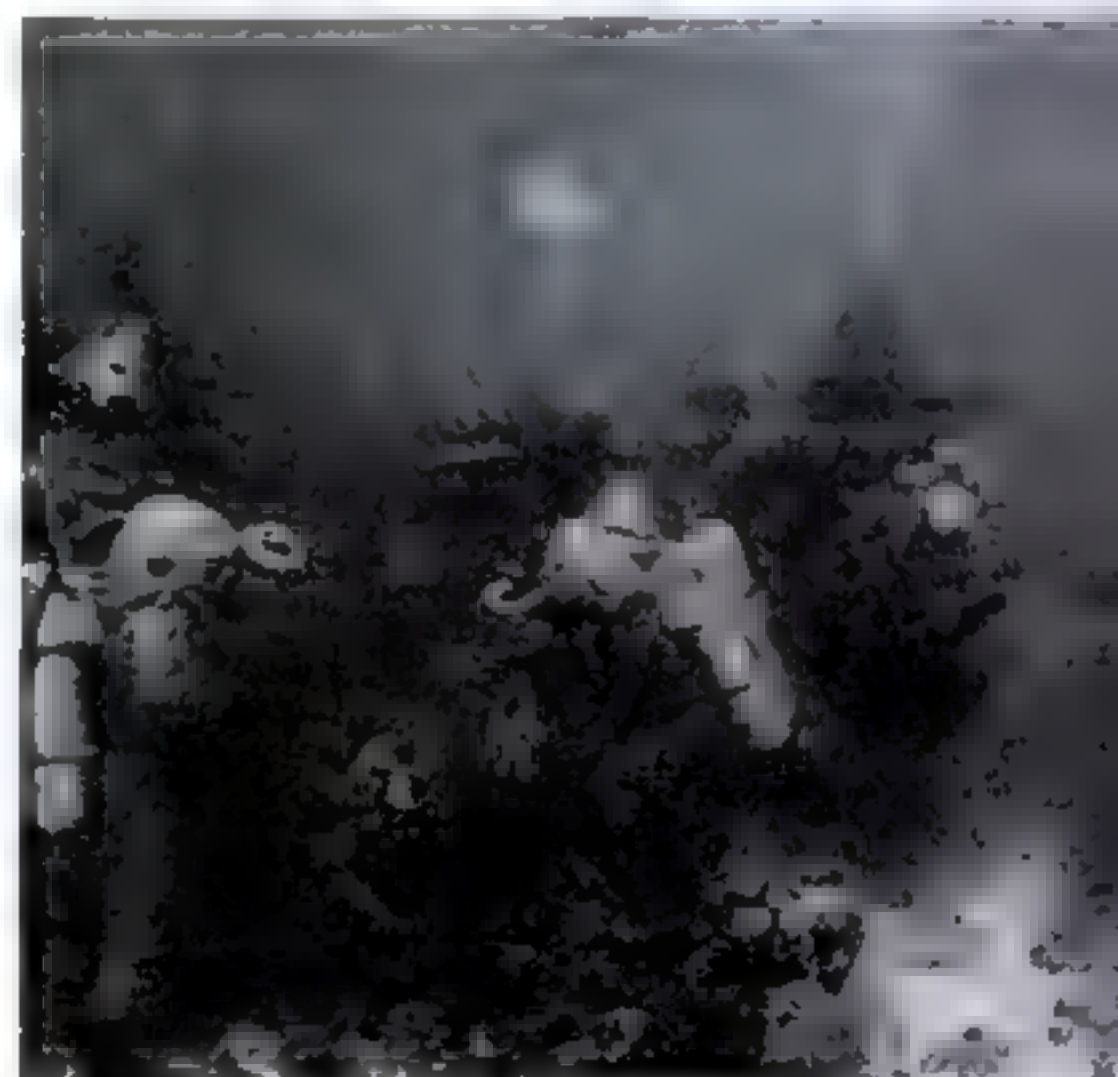
One of the crew's two Hollywood propmen lugs a nine-foot wooden prop wrench into position for the scene in which Nautilus crewmen leave their crippled...

submarine to repair propeller on bottom of sea. Propmen also had to lug about huge carpet used to keep sand in area from churning up before camera.

UNDERSEA MOVIE
CONTINUED



TWO HOLLYWOOD PROPMEN (IN WOOLEN UNDERWEAR FOR WARMTH) AND UNDERWATER GUIDES MANHANDLE A 400-POUND NET OF BAHAMA CRAYFISH ACROSS THE



CRAYFISH (left) in hands of a resting propman await their big chance. They will be dropped in front of camera if fellow crayfish above don't behave.



SEA FLOOR FOR USE IN THE HARVEST SEQUENCE



FISH HAM IT UP (above), goggling at the camera when released. Groupers were bought through fish market, often hung about for next day's shooting.

CONTINUED ON NEXT PAGE



SEAWED HARVEST by Captain Nemo's men, carrying four-pronged pitchforks, is helped along by propman (swimming, above) who passes down a net.

FINAL BRIEFING is given (below) by Coordinator Fred Zendar who hovers over actor-divers waiting off camera for big burial scene (next page) to begin.



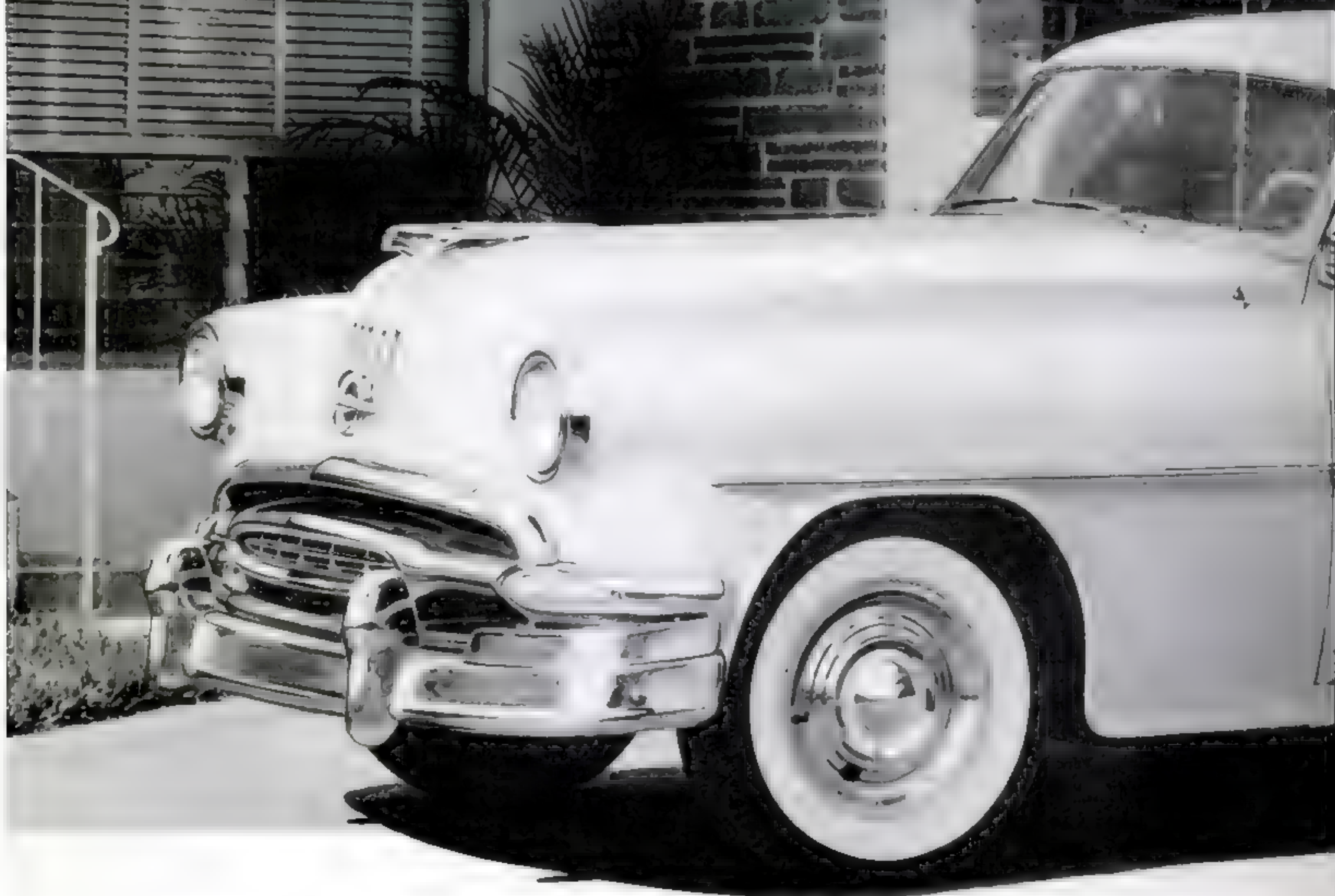


BURIAL UNDER THE SEA, the climactic scene which Director Fleischer and his co-workers have been waiting through four weeks of frustrating weather to



shoot, finally starts off as a ghostly procession of *Nautilus* crewmen carry the coffin of a slain shipmate across the murky sea floor toward its rocky grave.

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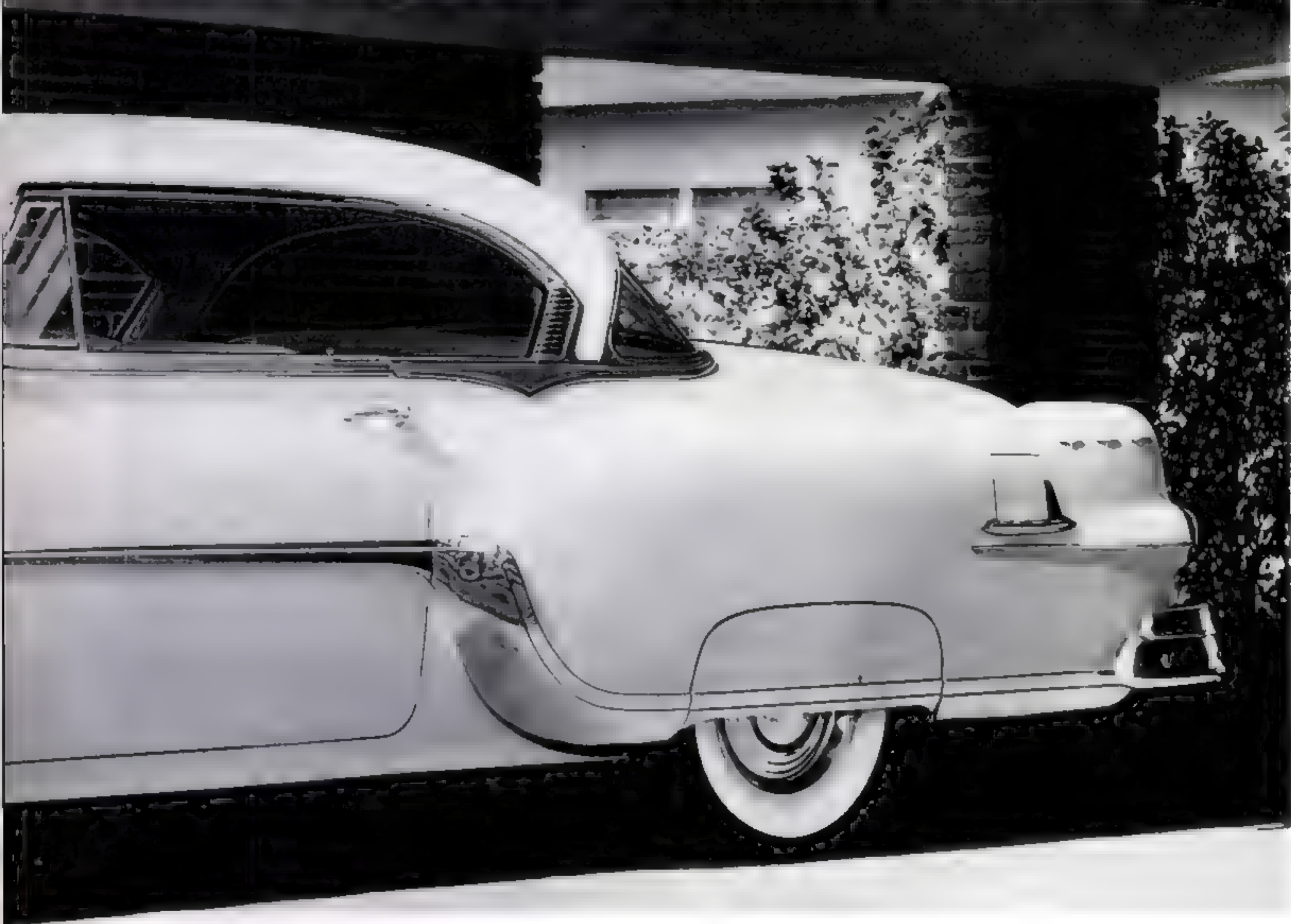
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TRACKING THE KILLER

Production of new polio vaccine brings a great medical mystery-drama, with a cast of thousands, up to its climactic act

by ROBERT COUGHLAN

THE biggest experiment in U.S. medical history will take place during the next few months when at least 500,000 children will be injected with a vaccine against poliomyelitis. Inoculations probably will get under way next month, in towns throughout the country, and will continue into June. Then local medical teams under the National Foundation for Infantile Paralysis will wait and watch as the annual curve of polio begins to climb, slowly in June, higher in July, highest in August and September, then falls steeply again with cool weather. Comparing the amount of polio among the inoculated children with that among the uninoculated ones, a committee of leading scientists will be able to judge the vaccine's effectiveness.

In theory it should produce immunity against polio in most or all of the inoculated children. The expectation is that it will produce at least some. Conceivably, it may produce none.

Suppose it should produce little or none. That would be a disappointment but would not alter the fact that an effective polio vaccine can be and will be made. This is the important news about polio, obscured in the public excitement about the forthcoming field trial of the vaccine. As Dr. Jonas Salk, under whose direction it was developed, has said, "The question . . . has not been what needs to be done to develop an immunizing agent against poliomyelitis but rather how this can be accomplished." In other words, the conquest of polio is now only a matter of technique.

A few years ago polio researchers were as far from this stage as cancer researchers are now from the basic answers in their field. Beginning in 1949, however, an amazing series of discoveries has occurred, culminating for the moment in the vaccine about to be tested. It is the purpose here to bring that forthcoming event into perspective for LIFE's readers by showing 1) what lies behind it and consequently what can reasonably be expected of it, and 2) what the near future may bring in polio vaccine research.

It is a dramatic story—one of the great medical detective stories of all time. It involves thousands of scientists, notably the two on the right of this page. We shall tell it here as it developed, clue by clue, not omitting the false clues. It is not, however, a simple story or one easy to follow. The search necessarily takes us into the world of microscopy and beyond, into a subsection of that world which until recently had been entirely invisible. To start with we must understand the nature of infectious diseases and the mechanism by which the body normally protects against them.

Antibodies vs. "germs"

IT was Robert Koch and Louis Pasteur who, in the 1880s, showed that infections are caused by bacteria, commonly known as "germs," which are in perpetual assault on the body. Occasionally, under conditions which make the body susceptible, they cause active infection and the individual may sicken and die. But ordinarily he does not, because the invading germs and substances which they produce stimulate the body to manufacture tiny chemical entities called "antibodies." For each kind of germ there is a corresponding antibody specially designed to deal with it. Moreover, these antibodies stay in the blood stream for a while, in some cases for the rest of the individual's life, and protect against future attack by that kind of germ. A vaccine consists of germs which have been so weakened (or killed) that they can no longer cause damage but which still can stimulate the body into pouring out antibodies. Vaccination has the same practical effect as a mild case of the disease.

Accordingly, Pasteur and those who followed him were soon able to give protection against a number of infectious diseases. But others would not yield because no causative germs could be found. In 1892 a Russian named Iwanowski showed the reason: the infectious material was so small that it passed through the finest laboratory filters; so small that even when it could be isolated it could not be seen because

CONTINUED ON NEXT PAGE



DR. JONAS E. SALK heads group at University of Pittsburgh which developed the vaccine now to be tried. Bottle holds a batch of the virus that causes polio.



DR. JOHN ENDERS and his associates at Harvard made crucial breakthrough in 1949 with a method for growing the polio virus in test tube tissue cultures.

it lay (in most cases) beyond the power of the strongest microscopes. These infectious agents were called "filterable viruses" and in time simply "viruses." Investigation showed they were fundamentally different from the tiny bacterial organisms that had been known previously. These latter could live and reproduce independently like higher forms of life; but viruses could reproduce only in the living cells of individuals they attacked. They have been called "the ultimate parasite": for when a virus particle infects a cell it takes control of the cell's metabolic system and forces the cell to produce more virus. Since this activity takes place inside the cell, medicines have difficulty working against it. The cell's walls, although they admit the virus, tend to keep the medicines out. And even when they do get in—as some of the new "miracle drugs" can in some instances—

it may be too late, for the cell may already have been damaged severely. This is the case with paralytic polio.

Many viruses do, however, yield to vaccination. A prerequisite, naturally, is that the antibodies caused by the vaccination be able to meet and destroy the virus particles before the latter can do their damage. Since the antibodies circulate in the blood, they can deal with those viruses which travel toward their prey via the blood stream. Or in some cases they may attach themselves to individual cells to give protection there at the actual point of attack. But this latter



DR. LANDSTEINER

phenomenon was, in the early years of polio research, almost an academic matter. Virus diseases preventable by vaccination were found to be ones in which the virus was blood-borne during some early stage of the infection. And this brings us to a basic dilemma that confronted polio researchers. Nobody could find polio virus in the blood of polio victims at any stage.

One may ask: Since the virus was invisible, how could they know? Because rhesus monkeys—the only animals then known which could contract the disease—could not be infected by blood samples from polio patients. Indeed, the only way the disease could be reliably passed from monkey to monkey was to take brain and spinal cord material from an infected animal and inject it into the brain of another. Dissection of paralyzed monkeys showed that nerve cells were the only ones the virus attacked, the only ones where it could be found.

With these discoveries, an intelligible theory about the disease grew up. The virus somehow got into the body, attached itself to nerve endings and followed the nerve fibers to the central nervous system, where it grew and did its damage.

This theory became even more convincing when it was found that rhesus monkeys could be infected by dropping virus onto the lining of the nose where the nerve fibers of the sense of smell come to the surface. These fibers lead directly to the brain. Having already found the virus in nasal and throat secretions from humans, the researchers had good reason to believe that the usual portal of entry for the virus was the nose.

The next step was obvious. If the olfactory nerve endings could be sealed in some way, the virus could not use them as a pathway. Various chemical sprays were produced and tried on monkeys. They worked: the monkeys could no longer be infected via the nose. In 1936 and in 1937 two large field trials took place, one in Alabama and the other in Toronto, each the location of severe polio epidemics. Some 10,000 children received the nasal sprays. The only result was that they lost their sense of smell—in some cases for years. The treatment had no significant effect on the amount of polio in the two groups. Examining the debris of their false hopes, researchers could conclude only that what was true for monkeys under laboratory conditions was not necessarily true for human beings under natural conditions. The mystery deepened.

Meantime another odd fact about polio had been discovered. Tests which had been developed showed that the blood of some polio victims contained polio antibodies. It was hard to understand why they should

be there—there was no virus in the blood, so what purpose did the antibodies serve? But perhaps they attached themselves to the nerve tissue to give some protection. On this assumption, various researchers began experimenting with vaccines. And it was found that vaccination did, in fact, give some protection to rhesus monkeys—not always, but often enough to be quite encouraging.

In 1935, even before the nose-spray technique had been tested, two men in different parts of the country felt ready to undertake experiments on humans. Dr. John A. Kolmer of Temple University's school of medicine used live but highly diluted polio virus secured from the ground-up spinal cords of monkeys and mixed with a chemical derivative from castor oil. Dr. Maurice Brodie of the New York City Health Department tried to inactivate his monkey-cord fluid with Formalin, a solution of formaldehyde. By the end of the year some 17,000 children had been inoculated. There was no provision for following the results closely. But after a time disquieting reports began to be heard by the U.S. Public Health Service. Investigation showed that 12 of the children receiving the vaccines had very soon come down with polio, and six of them died. Both vaccines were judged unsafe and were dropped.

This era, which brought two great disappointments, also brought two great steps forward. One was the creation of the National Foundation for Infantile Paralysis, which up to now has collected \$296 million from voluntary public contributions for the support of polio research in all fields. The other advance, which came in 1939, was the work of Dr. Charles Armstrong of the U.S. Public Health Service who succeeded in infecting cotton rats and subsequently white mice with polio. Previously only the chimpanzee had joined the rhesus monkey as a susceptible laboratory animal, but it was even more expensive to get and troublesome to feed and keep in good health. Now in the cheap, prolific white mice, researchers had an extremely valuable new tool, although it also had its limitations.

The virus Dr. Armstrong used came from the brain and spinal cord of a young man who had died of polio in Lansing, Mich. and for purposes of medical nomenclature was known thereafter as the "Lansing strain." Mice could be infected with it and with other virus strains which seemed to resemble it, but not with other samples. These—and they were a majority—still had to go into monkeys and chimps. A few years previously, two Australian researchers named Burnet and Mac-

namara had indicated that there might be more than one kind of polio virus. Drs. John Paul and James Trask at Yale had soon reached the same belief; the adaptation of the Lansing strain to mice further strengthened the suspicion, as did reports that some people had had more than one case of polio. If it were true, the fact would have the greatest importance in vaccine research, since an effective vaccine would need to contain all the immunologically different kinds of polio virus. Fundamental as that conclusion was, research at the time was in such a beclouded state that it lay largely neglected.

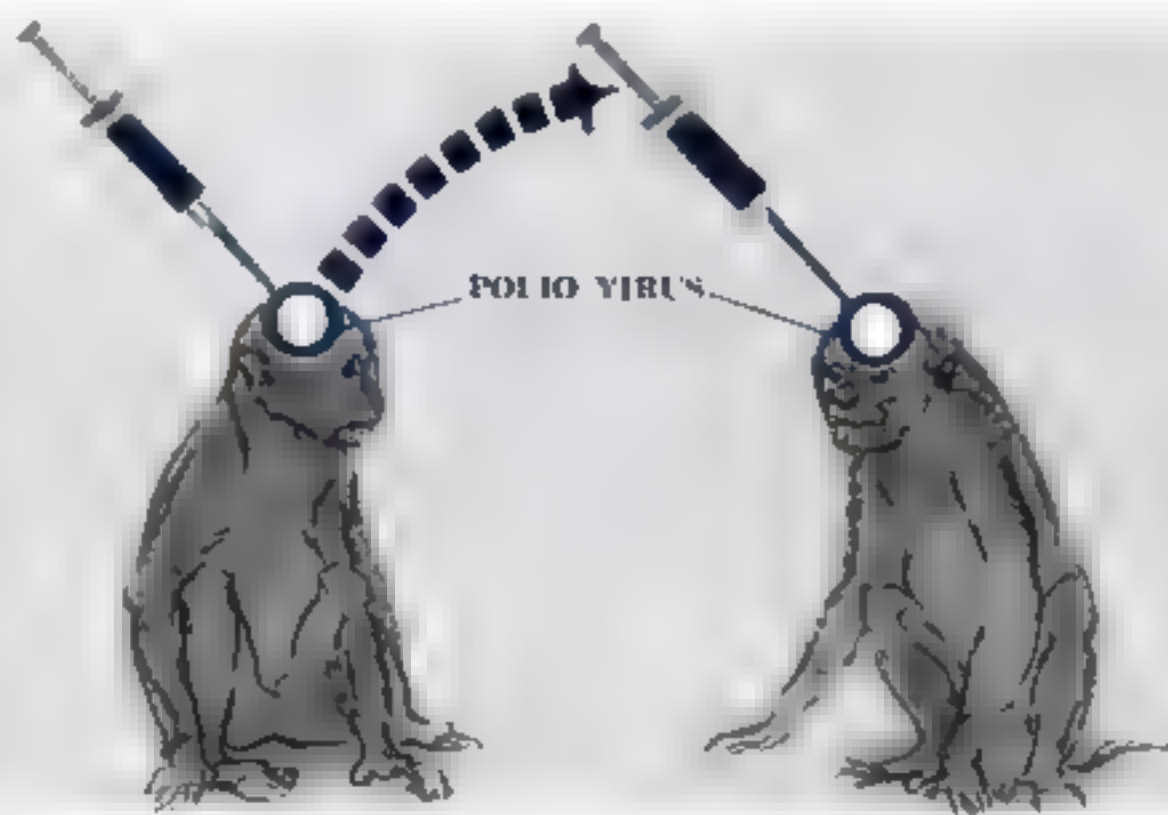
Here, at the beginning of what polio researchers fondly call "the mouse era," it will be well to stop for a moment and summarize what was generally believed about this mysterious and elusive disease.

It was caused by a virus which no one had seen. This virus attacked the nerve cells directly, following along nerve fibers to the central nervous system, with no intermediate stage in the blood. It probably did so by entering through the nose—this was believed in spite of the failure of the nasal-spray experiments. Perhaps there was more than one distinct type—no one knew for certain or could guess how many types there might be. Plainly, on the basis of this information and in view of the failure of the Kolmer and Brodie vaccines, the prospects for an effective method of controlling the disease were remote.

During the next few years other trails were followed and some relevant pieces of information were turned up. It was learned that



DR. FLEXNER



FIRST STEP in the conquest of polio, which in nature attacks only humans, was to find a laboratory animal in which it could be studied. In 1909 Dr. Karl Landsteiner showed that monkeys could be infected. Later Dr. Simon Flexner proved that the disease could be passed from animal to animal by taking nerve tissue from one infected monkey and injecting it into the brain of another.



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ARROW

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ROADBLOCK in the way of a safe polio vaccine was the fact that the only source of virus used in making vaccines was infected monkey nerve tissue. When injected into humans, this could cause inflammation of the brain.

POLIO VACCINE CONTINUED

polio actually is a very common disease, as common as measles or mumps, and that in this country about 80% of adults have had it at some time in their lives without knowing it. They have had no worse symptoms than headache, sore throat, upset stomach, short fever or perhaps no symptoms at all. In the unlucky few, for reasons and in ways still not entirely understood, the virus penetrates the nervous system and results in some degree of paralysis or in death. Thus *paralytic* polio, instead of *polio per se*, became the criminal and central figure of the mystery. Fully as surprising, it was found that the paralytic form is much commoner in civilized, hygienic countries and communities than in those with crowded, unsanitary conditions.

It was learned that polio patients excrete live virus in their bowel movements, and this prompted the belief that the gastrointestinal tract might somehow be involved in nurturing and spreading the virus. There was no agreement, though, as to how this could be. Following the same lines of investigation, researchers found that polio patients excrete virus for as long as two months after their clinical symptoms have disappeared. Putting this together with other findings, it was seen that the disease could be spread by innocent "carriers": recently recovered victims or people unknowingly undergoing a "silent infection." Several research groups found that flies could carry and excrete polio virus. Fly-abatement campaigns were tried—and had no effect at all on epidemics. Indeed, about the only information helpful to the family doctor was the discovery by Dr. Sidney Levinson and Dr. Albert Milzer that both fatigue and sudden chilling—for instance, plunging into cold water on a hot day—increase the severity of polio among those who may unknowingly be carrying the infection in their systems.

Vaccine studies were still going on. There was the tantalizing fact that monkeys could be vaccinated: if their antibody levels were high enough, they were protected even against large doses of virus injected in their brains. It was reasonable to think that humans could be protected too. But there was no way to find out unless one could produce a *safe* vaccine. And safety, it was now realized, involved still another factor—holding within it the threat of an even worse affliction than polio.

A vaccine would have to be made from virus. The only known source of the virus was the nerve tissues of laboratory animals. But any vaccine made from nerve tissue, when injected into the body, could cause an allergic inflammation of the brain and spinal cord called encephalomyelitis. The majority of its victims recover, but some die and others are left unable to respond physically or mentally—they become "vegetables." With millions of children to be vaccinated there might be thousands of encephalomyelitis cases, a prospect no one cared to invite.

This was the situation in the early and mid-1940s—baffling, not without hope, but with no foreseeable escape from the dilemmas which seemed to be intrinsic in the disease. Then, quite suddenly, the pieces of this incomprehensible jigsaw puzzle began to fly together. We shall watch them here in sequence.

If it were true that polio antibodies circulating in the blood could protect against polio virus, the problem became one of how to supply the antibodies. Vaccination seeming unfeasible, the alternative was to secure antibodies from the blood of people who already had them. It was known that most adults had them as the

CONTINUED ON PAGE 126

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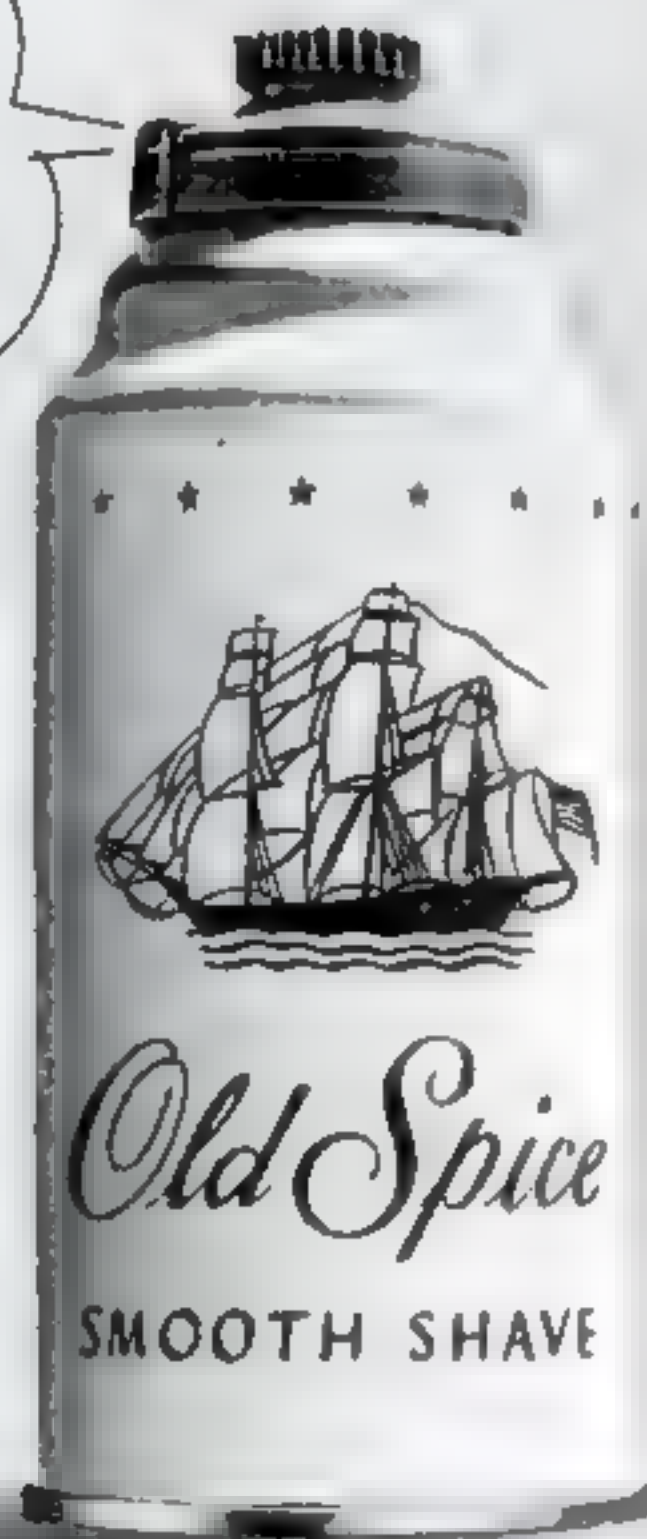
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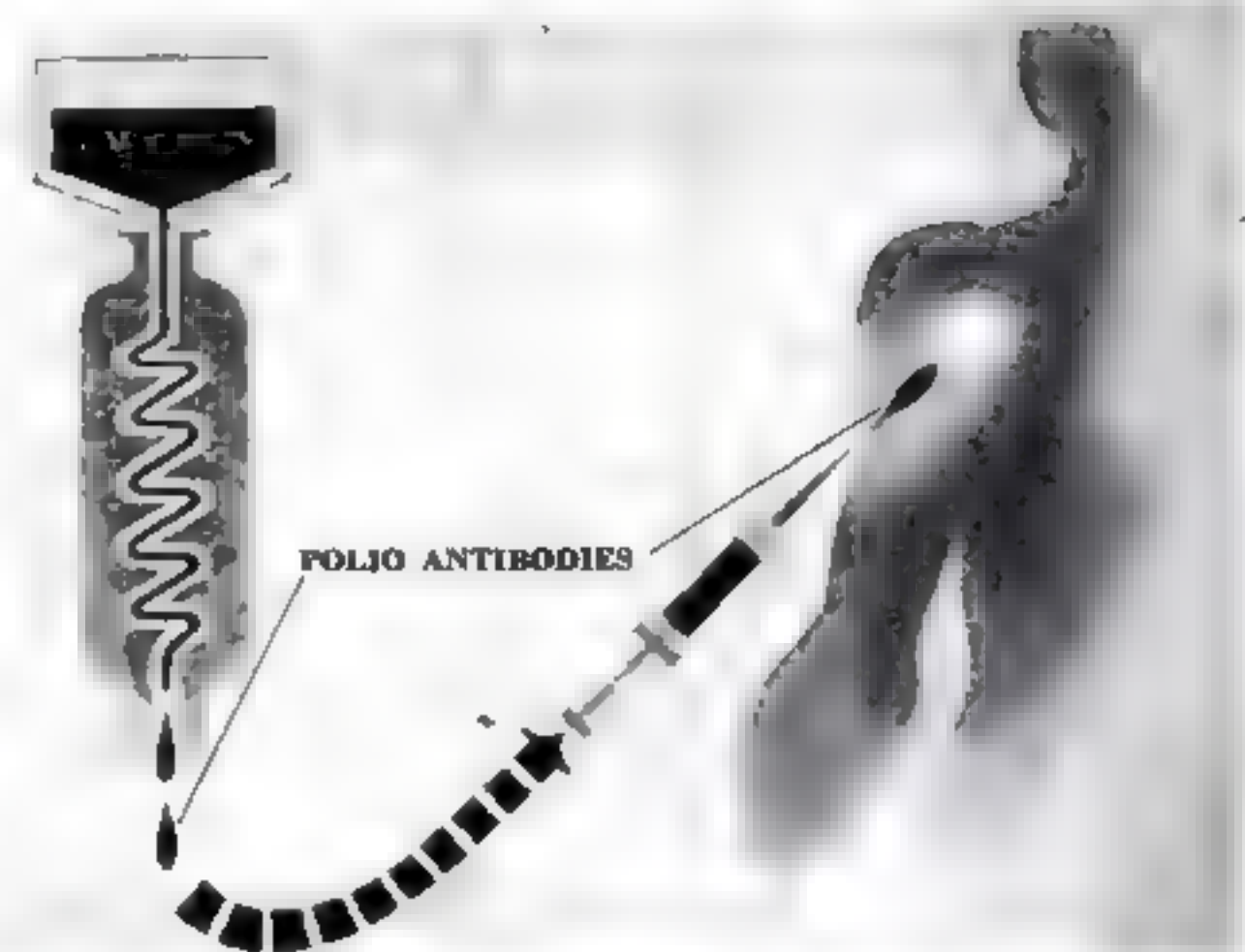
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CRUCIAL QUESTION was whether antibodies, which destroy virus, could prevent disease if they were in blood. Answer came when Dr. William McD. Hammon found that gamma globulin, blood derivative rich in antibodies, protected children. Method of obtaining "g.g." was developed by Dr. Edwin Cohn.

POLIO VACCINE CONTINUED

result of prior "silent infections." By bleeding these people and letting the blood clot, one could secure a pale yellow fluid called "immune serum." This contained the antibodies. But they were present in small amounts. To pump enough antibodies into a child to give him immunity would require impossibly large injections. This part of the riddle was broken in 1942 by the late Dr. E. J. Cohn and his associates at the Harvard Medical School. What impelled Dr. Cohn to do so, however, was not polio but war.

Battle casualties would need transfusions, but whole blood could not be kept indefinitely or stored easily. Dr. Cohn, securing plasma for use in shock (the commonest trouble in wounds or surgery), went on to produce a method for "fractionating" this into its component parts, including one called "gamma globulin." The latter contained a large share of the blood's antibodies in concentrated form. And since, under the Red Cross's blood donation campaign, blood was being collected from millions of people and mixed together in many common pools, gamma globulin derived from them was sure to contain some antibodies for



DR. COHN

all the common infectious diseases—including polio. Did it have enough polio antibodies to be of practical value?

Several researchers were eager to find out and asked the National Foundation to support a mass trial on humans. But the Foundation's experts, knowing that the level of antibodies in gamma globulin still was relatively low and unconvinced in any case that antibodies in the blood could have much effect on an infection that seemed to travel only by nerve pathways, decided against it. And there the matter lay for the time being.

The next piece of the puzzle was a discovery that was undoubtedly the most important in the whole history of polio research. Dr. John Enders and his associates, Drs. Thomas Weller and Frederick Robbins of Harvard and The Children's Hospital, Boston, found that they could grow polio virus in non-neural tissues in test tubes. If the reader has followed the development of the mystery thus far, he will easily see the significance of this event. By 1) removing the peril of encephalomyelitis and 2) furnishing a cheap and ample supply of virus and 3) furnishing it, moreover, in relatively pure form, it cleared the way for the potential manufacture of a safe vaccine in quantity. In addition, it upset the whole previous theory of the development of the disease in humans by showing that the virus is not necessarily attracted to nerve cells alone. There was the evidence in the tubes: the virus thrived and reproduced in nonnervous tissue. Might it do



DR. HAMMON

CONTINUED ON PAGE 111



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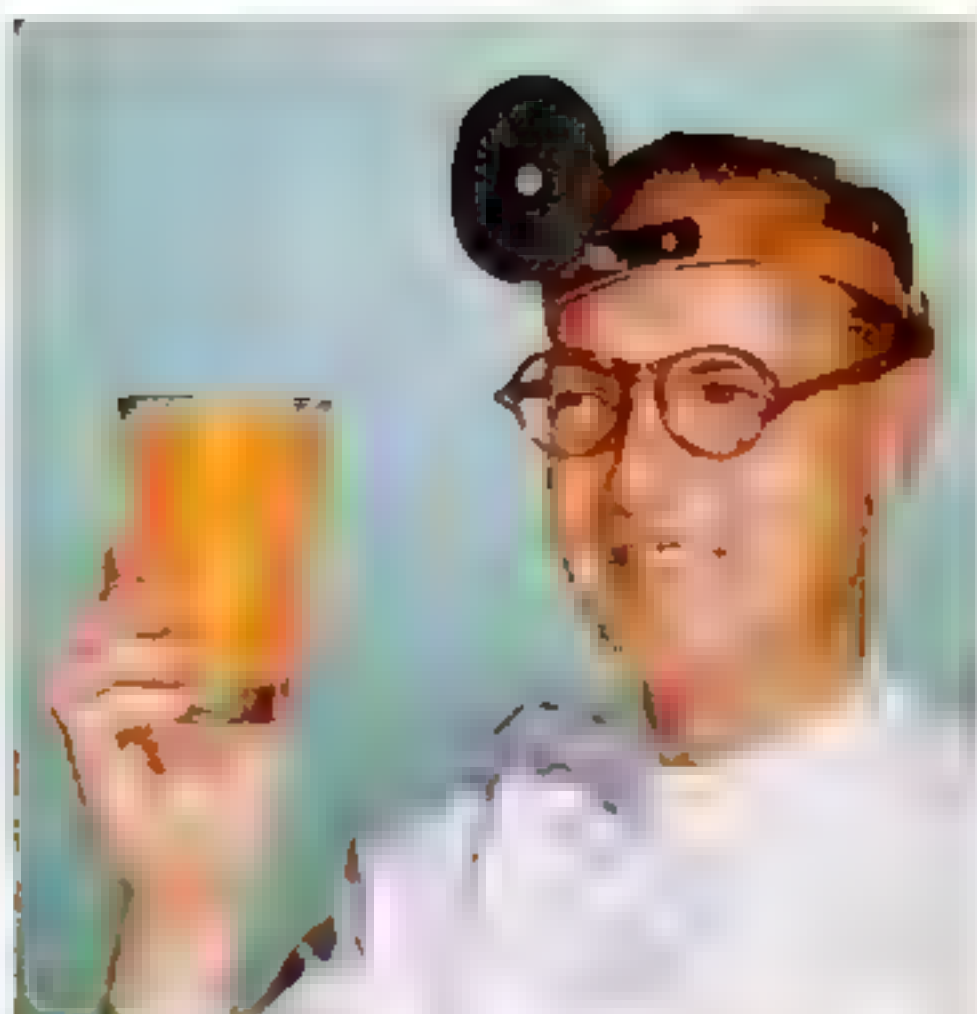


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POLIO VACCINE CONTINUED

the same in the body? If so, then there was a chance that it could be stopped somewhere along the line of development before it entered the central nervous system and caused paralysis.

Many other researchers had tried to make the virus grow in nonneural tissues. Dr. Enders, a mild, self-effacing man, has no explanation for his own success except that he tried hard and in different ways. "I've wondered about that a good many times," he says. Dr. Thomas Rivers, director of the Rockefeller Institute and dean of virologists, can think of no reason either except that "John Enders is a very stubborn man."

This was in 1949. The year before, the National Foundation had put the third piece of the puzzle in motion. It was realized by then that there were many different strains of the virus, some seeming to form "families." Work at Johns Hopkins and the University of Southern California indicated that there were at least two such families. Determining to find out how many distinct immunologic types there were, the Foundation mounted a huge investigation enlisting virus laboratories at four universities. By 1951, after the expenditure of \$1,370,000 and 30,000 monkeys, 100 strains from all over the world had been tested and the problem solved. There were three families. One was the "Brunhilde" family, so called after a chimpanzee at the Johns Hopkins Poliomyelitis Laboratory in which the first strain of that kind had been isolated by Drs. Howard Howe and David Bodian; one was known as Lansing after the strain first adapted to mice by Dr. Armstrong; the other was "Leon" after a small boy who had died of polio in Los Angeles and from whose body the first strain of the kind was identified by Dr. J. F. Kessel. Lately they have been known simply as Types I, II and III.

From this program it followed that any vaccine must contain strains of all three types. But especially it must contain a representative of Type I, the Brunhilde family, for it has been found that this is the one which accounts for the great majority of polio epidemics.

The stage was now set for the denouement. Virus for safe vaccine material could

be produced in quantity. A polio vaccine would produce polio antibodies, as many workers had long since demonstrated in animals. But could antibodies really protect humans against the infection under natural conditions? If so, how high would the antibody level have to be to do the job? It is at this point that the first piece of the puzzle moves again and slips into place. Dr. William McD. Hammon, professor of epidemiology at the University of California, came east in 1950 to head that department at the University of Pittsburgh's Graduate School of Public Health. He had been interested in the possibilities of gamma globulin and soon joined forces with others to revive the issue with the National Foundation. Finally, after much discussion (Dr. Thomas Rivers, one of the Foundation's advisers, says, "Bill Hammon is another very stubborn man"), the Foundation agreed to sponsor a field trial. The results showed that even the small amount of polio antibodies contained in the small quantity of gamma globulin administered (Dr. Hammon's criterion: "We gave as much as we could without giving 'em sore

rumps") gave significant protection to children who had not yet been infected with the disease. (It has little or no use otherwise.) It followed that in human beings anything that would cause the body to produce even a very low level of antibody—as a weak vaccine could—would do some good.

But even before these results were announced came solid evidence that showed why they could be expected. Dr. Dorothy Horstmann of Yale and Dr. David Bodian of Johns Hopkins independently found in monkeys that in the early stages of the disease, the polio virus does circulate in the blood. There was a time and place in the body at which antibodies could destroy the virus before it reached the central nervous system. Moreover, Dr. Bodian showed that in monkeys the amount of antibodies necessary to do so was quite small. The puzzle was done: the theoretical basis for the creation and use of a successful vaccine was complete.

But why, one asks, did it take decades to make this basic and (one would suppose) simple discovery, the absence of which had so completely misled previous thinking? The answer returns us to the very first link in the chain, when early workers succeeded in passing the disease from one rhesus monkey to another by injecting virus directly into their brains. Later on came infection via the olfactory nerve cells. But these were the only reliable ways they could be infected. With the advent of the Lansing strain, the same thing held good for mice. Chimpanzees, it was true, could be infected by intramuscular injections or even by feeding them virus, but the significance of this was not realized. Why not? Because their blood showed no trace of virus, and it was assumed almost as an

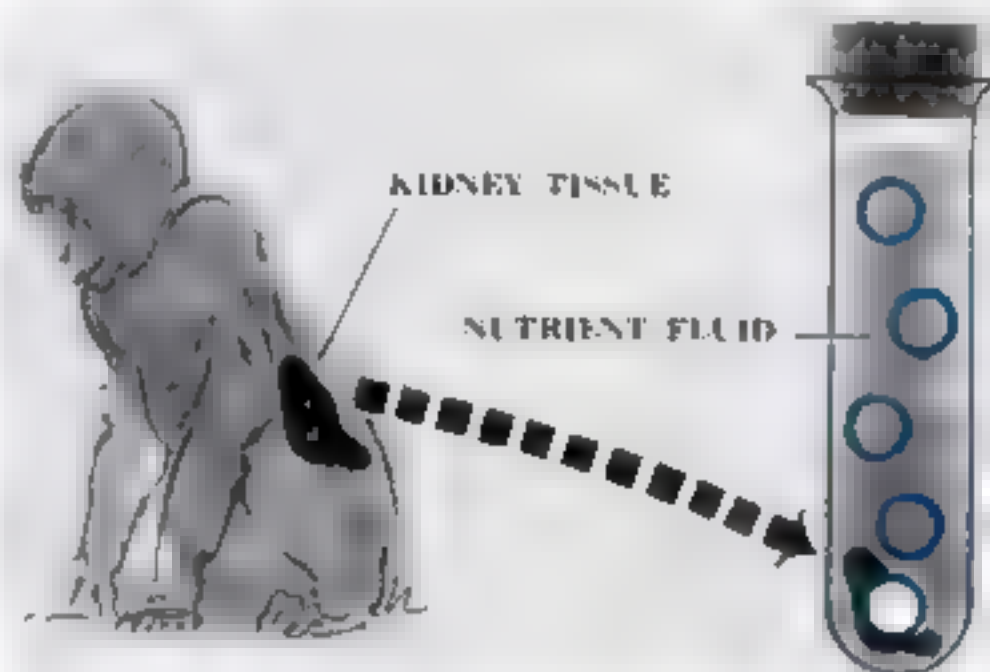
article of faith that it made its way to the central nervous system by riding along nerve pathways from the injected muscle or the gastrointestinal system. This was the explanation when, later on, cynomolgus monkeys from the Philippines also were vulnerable to injection and feeding.

This reasoning was weakened by Dr. Enders' finding that the virus could grow in nonnervous tissue, and again by the suggestive, if inconclusive, early experiments

with gamma globulin. At last Drs. Horstmann and Bodian took what now seems a most obvious next step. They fed virus to cynomolgus monkeys and began very soon to take samples of their blood. During the incubation period, virus began to show up—although the animals had no clinical symptoms of polio.

In these early stages there were no polio antibodies in the samples. Then, at the time when paralytic symptoms began—at the time, that is, when the disease could be identified by outward symptoms as polio—antibodies had appeared but the virus had disappeared!

What had happened? Very simple: there was no virus left in the blood because the antibodies had destroyed it. The whole mystery had lain in the fact that there is a delayed reaction in the formation of polio antibodies. By the time they form and clean the virus out of the blood, some of the virus has already (in paralytic cases) managed to reach the central nervous system, where antibodies have a hard time getting at it. A vaccine, by stimulating an adequate supply of antibodies in the blood to



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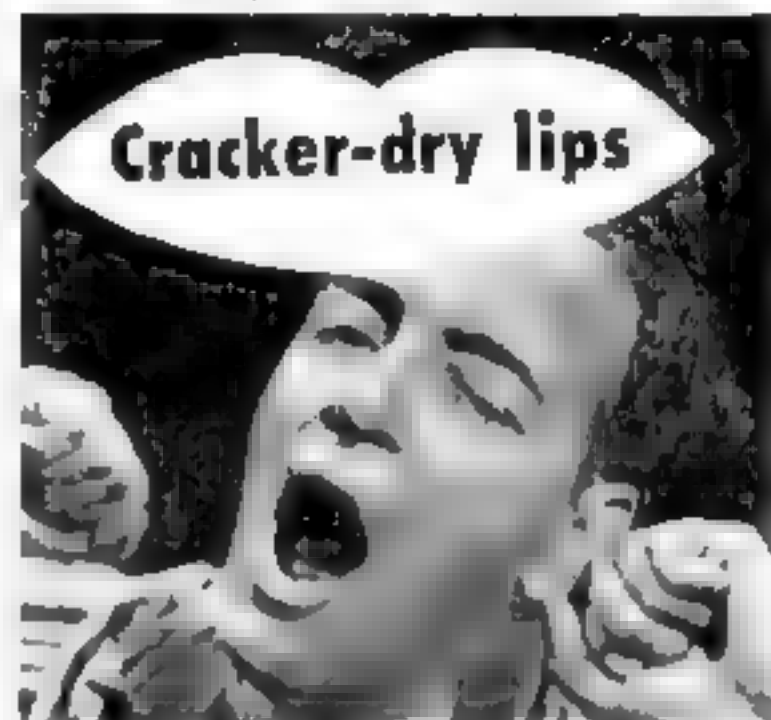
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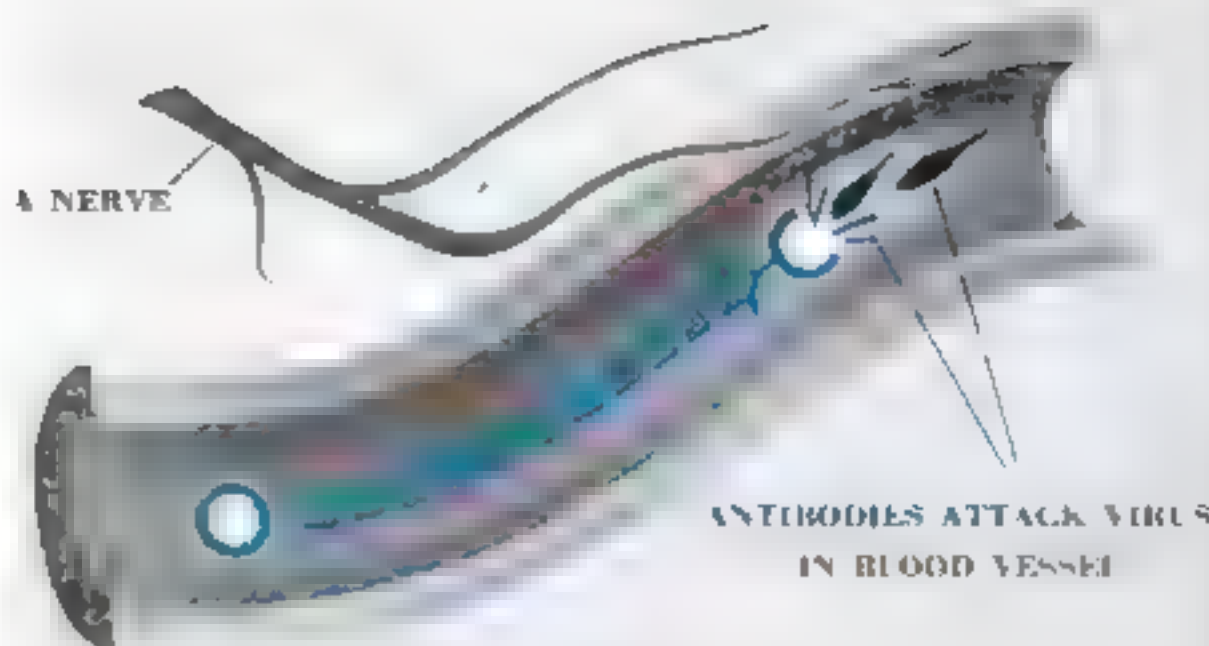
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FINAL STEP in solving the polio mystery came when Drs. Dorothy Horstmann and David Bodian showed in monkeys that the virus travels via the blood. Thus polio antibodies induced by the vaccine's presence could intercept the virus particles before they reach the nerves, where they do their damage.

POLIO VACCINE CONTINUED

begin with, could stop the virus in its tracks. Announcing his discovery, on April 15, 1952, Dr. Bodian commented, "... It would appear that paralytic poliomyelitis should be one of the most readily preventable diseases."

Thus after decades of trial and error, the basic problems of polio prevention were worked out in a space of only four years. Questions which had baffled researchers for years found logical answers. Why was virus found in the bowel excretions of polio victims? Evidently



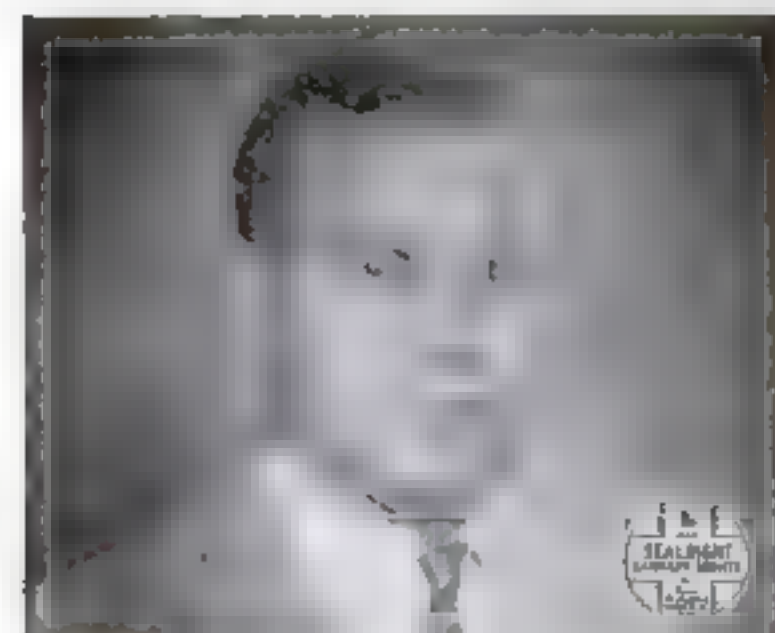
DR. BODIAN

because the digestive tract is the place where, in most cases, the virus first takes hold and multiplies (on nonnervous tissue); from there presumably it is absorbed by the blood and carried to the central nervous system. (Sometimes it may go directly up nerve pathways, but a potent enough vaccine can handle these situations also, as monkey vaccinations had shown.) How does it get into the digestive system? No doubt usually through the mouth, in all sorts of ways—perhaps by children sharing a bag of popcorn at the movies. Why did it take such a high level of antibodies in rhesus monkeys to immunize when a barely perceptible level will protect humans—and cynomolgus monkeys? Because the rhesus monkeys had the virus shot into their brains or dropped into their noses and that isn't the way people get it: they get it via their digestive tracts (as did the cynomolgus monkeys in the experiment). Why does the amount of paralytic polio increase with civilization and sanitation? Because under crowded, unsanitary conditions babies are exposed to it frequently, perhaps in very small doses or very mild forms, and so in the earliest years of childhood acquire antibodies which protect them the rest of their lives. Conversely, hygienic conditions delay exposure and may prevent it for years—and the older one gets, the harder the disease tends to hit. This explained why the age at which paralytic attacks occurred kept rising, so that "infantile paralysis" had become a misnomer, and why polio epidemics, very rare before the 1890's, occurred in the most materially advanced countries. The doctors, by their insistence on sanitation, had created the very problem they were now prepared to solve. The remaining problem was one of approach and technique: what kind of vaccine; how should it be made; how soon could it be made.

Very soon some tentative answers came from a young scientist named Jonas E. Salk. Interested primarily in influenza during the early part of his career, Dr. Salk came to the University of Pittsburgh in 1947. There he soon became deeply involved in polio research since Pittsburgh was among the universities which in 1948 began the typing program. He took charge of the Pittsburgh end of it and, while not neglecting his influenza studies—he has produced a new type of flu vaccine—became fascinated by the less amenable problem of polio. By 1949 he had become research



DR. HORSTMANN

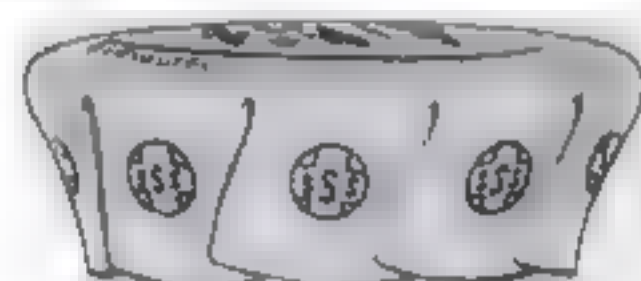


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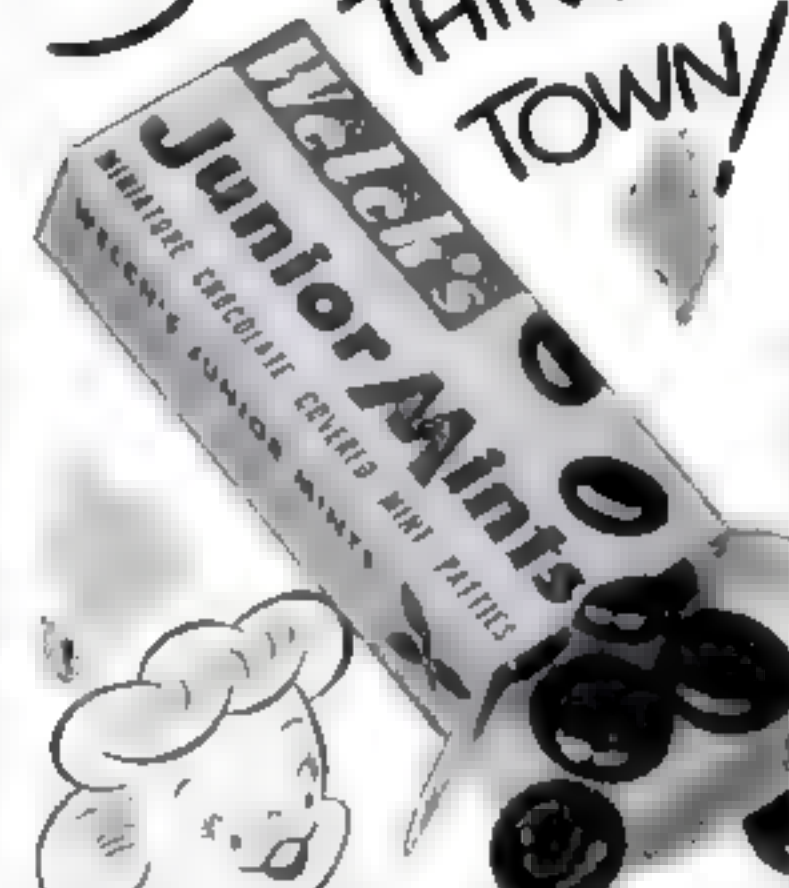
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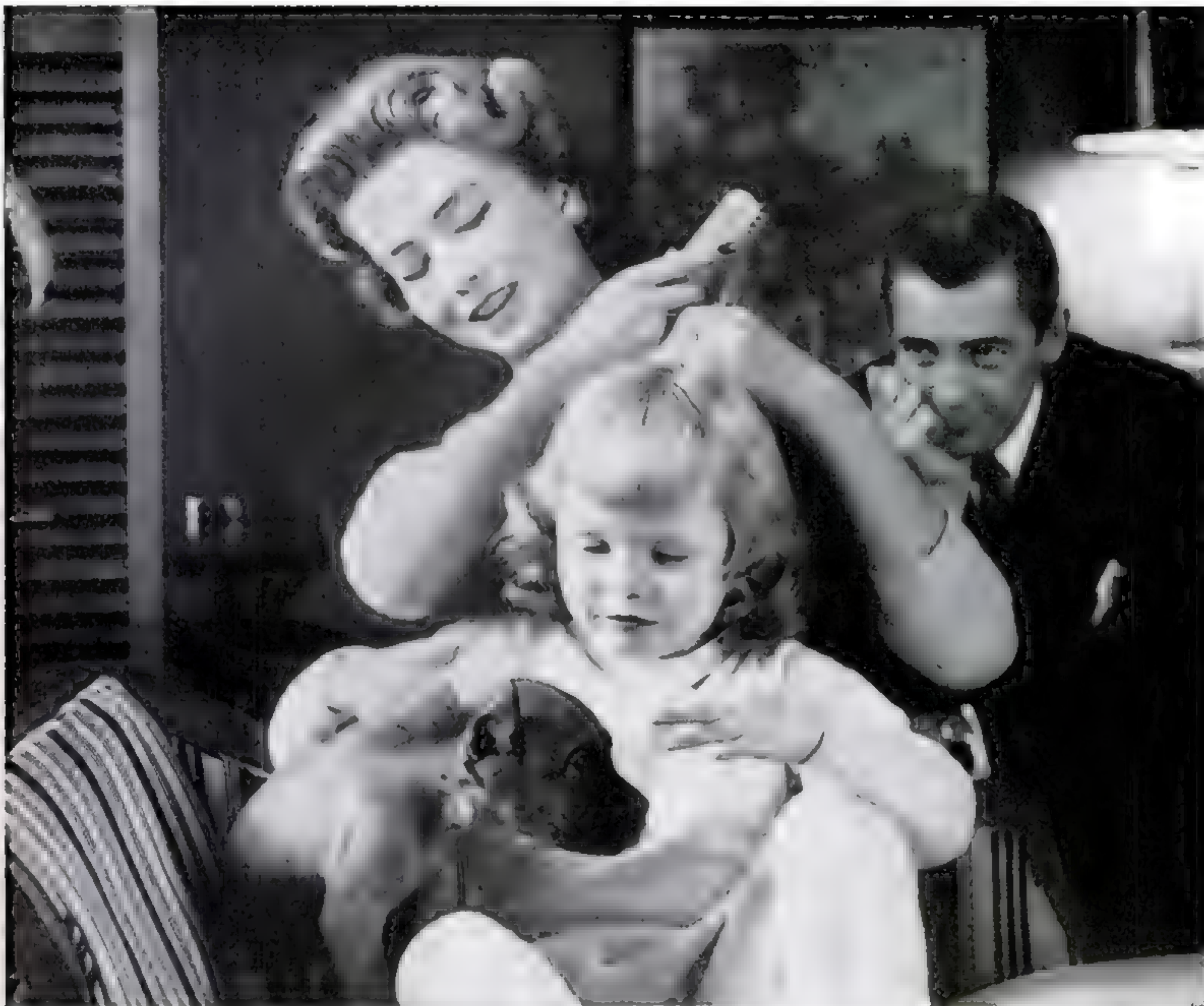


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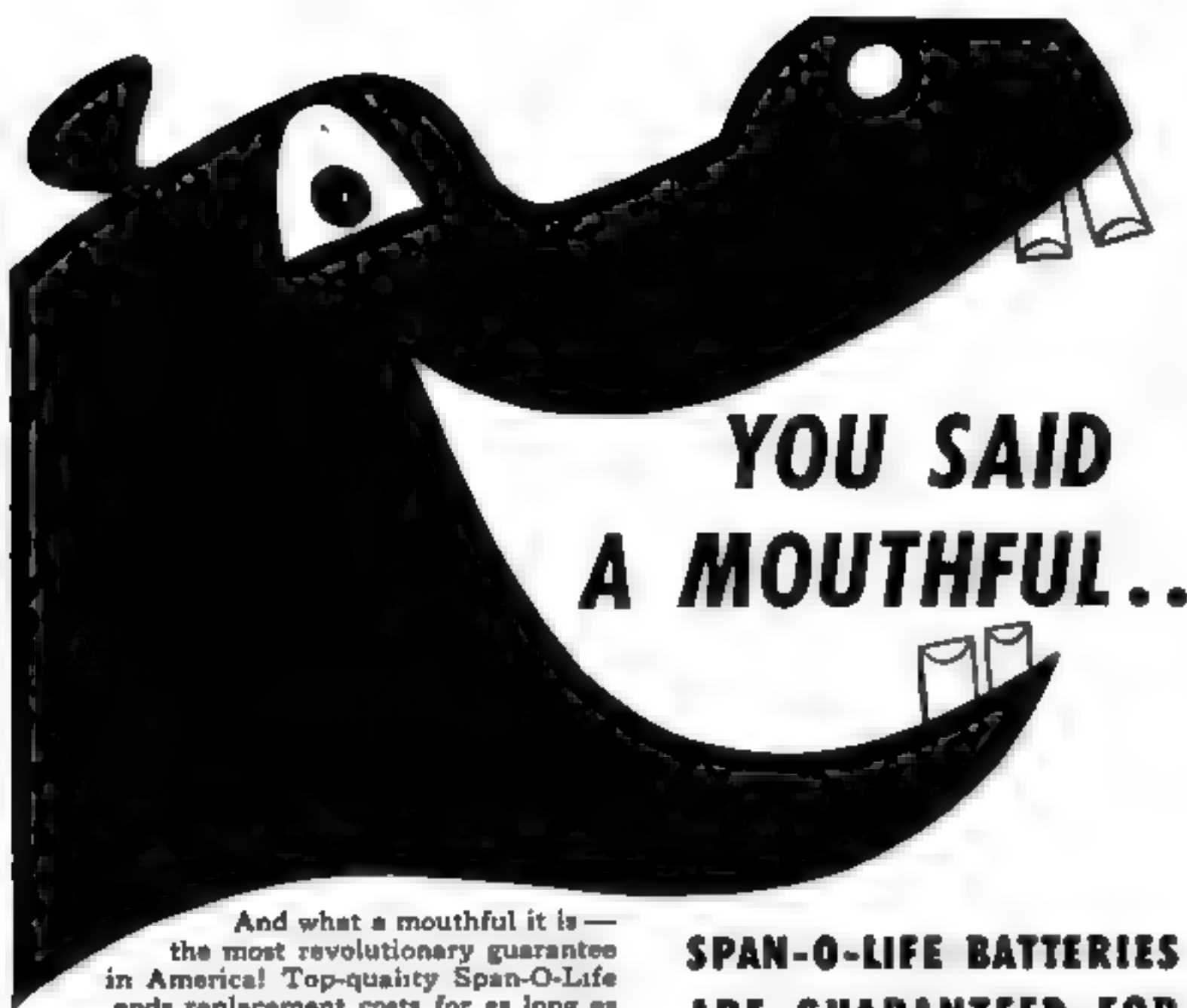


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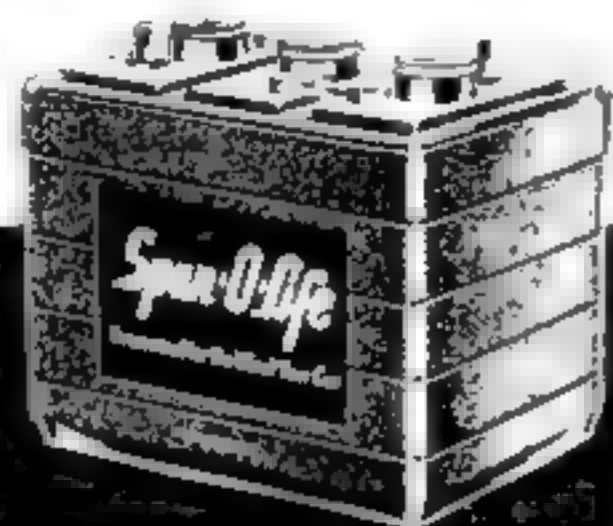
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POLIO VACCINE CONTINUED

professor and director of the school's Virus Research Laboratory and by 1951 had begun working on polio immunization studies under a large grant from the National Foundation. In the spring of 1953 he published the results of vaccine studies that he and his group had made on 161 human subjects. He has had little peace or rest since then, for it appeared that he had induced antibodies in them with no signs of any harmful "side effects" from the vaccine. The announcement created excitement and an amount of publicity which Dr. Salk, absorbed in his work and unused to being a celebrity, finds extremely uncomfortable.

What is this vaccine? It is polio virus of all three types, inactivated by Formalin (by highly refined technical methods) so that it can no longer infect but can cause antibodies to be produced. Three shots are planned, the second coming within a fortnight after the first and the third "booster" shot some weeks later.

Is it safe? Dr. Salk has already inoculated hundreds of children, including his own three small sons, and by the time of the field trials will have given it to at least 5,000 others. What is more impressive, each batch of vaccine will be tested for safety three times by the most rigorous methods known and certified by the U.S. Public Health Service. The advisory committee of the National Foundation, including men who are seasoned leaders in the field of virology, guarantees its safety. So does Dr. Salk, a responsible scientist who, of course, would be ruined by any mistake in his work. "There is no question of 'how safe is it?'" he says. "It is safe, and it can't be safer than safe."

Will it work? As the reader is now in a position to see, there are excellent reasons for thinking it will give protection. The purpose of the field trial is to find out whether it actually does so under natural conditions and, if so, for how long. (At least through a polio "season," it seems.) But the natural incidence of paralytic polio is so low that 500,000 or even 1,000,000 children may not form a really reliable sample. The complete answer may have to wait for several years and the vaccination of millions of children.

The frontier of polio research

IN the meantime vaccine research will go on more actively than ever. Dr. Salk and his group have already produced what they think is a more potent vaccine. It will not be used in the trial because it needs further testing on a pilot scale and also because, as Dr. Hart Van Riper of the National Foundation says, "There comes a time in any field of medical development where you have to say, 'O.K., freeze it. This thing we have is good, so let's standardize on it and get it into use and, while we're using it, go ahead and work on improving it. That way we begin to save some lives.'"

There are two broad directions in which future vaccine investigations will continue. One will be to study different methods of inactivating the virus so that, while remaining completely safe, it will have the strongest possible "kick" and stimulate the system to produce the highest possible level of antibodies. This is a matter of altering the virus particles in just the right way; and not only the Salk group but many others are busy with various experiments toward this end. For instance, Drs. Milzer and Levinson of Michael Reese Hospital, and their associate Dr. Shaughnessy of the Illinois Department of Health, inactivate their virus by means of ultraviolet radiation. In some other diseases, notably rabies, this method has produced vaccines from 10 to 100 times more potent than by chemical treatments. Tests on adults have already been made and this winter selected groups of children will be vaccinated. Whether this particular method is better or not, it is certain that improved "killed-virus" vaccines will be produced.

The alternative, of course, is to use a vaccine of weak but still active "live" virus. Since it duplicates the processes of natural infection, live virus ordinarily stimulates a higher production of antibodies and keeps the level high for a longer period of time. Such is not necessarily true of polio: indeed, Dr. Salk has reason to believe that his killed virus, when given in the prescribed manner (the third or booster shot increases antibodies enormously), may even improve on nature. Nevertheless, until the evidence on this point has been established beyond question, the live virus method will remain a desirable goal.

The first vaccination in history was done (in 1798) with a live virus when Dr. Edward Jenner, observing that dairymaids who got cowpox were thereafter immune to smallpox, took material from cowpox pustules and inoculated a small boy. It has always been hoped that polio might yield in the same way, that some mild virus related to polio—as the harmless virus of cowpox is related to the morbid smallpox virus—might furnish "cross-immunization." Perhaps such a virus exists in nature and will be found.

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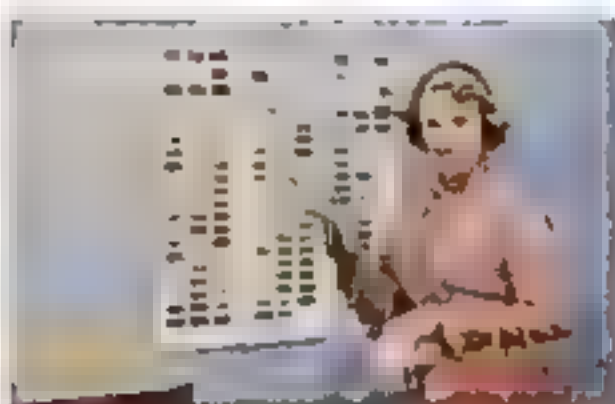
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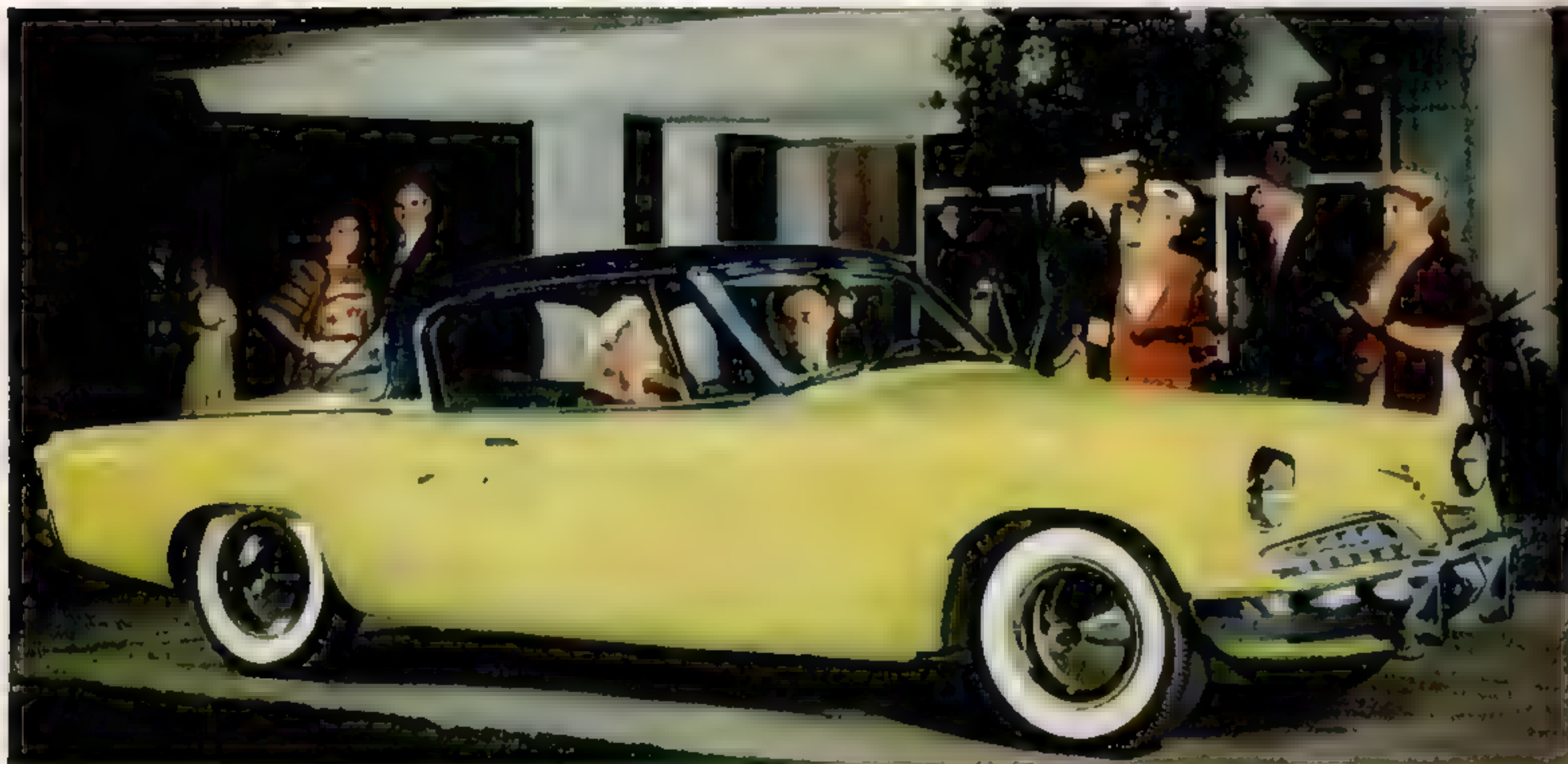
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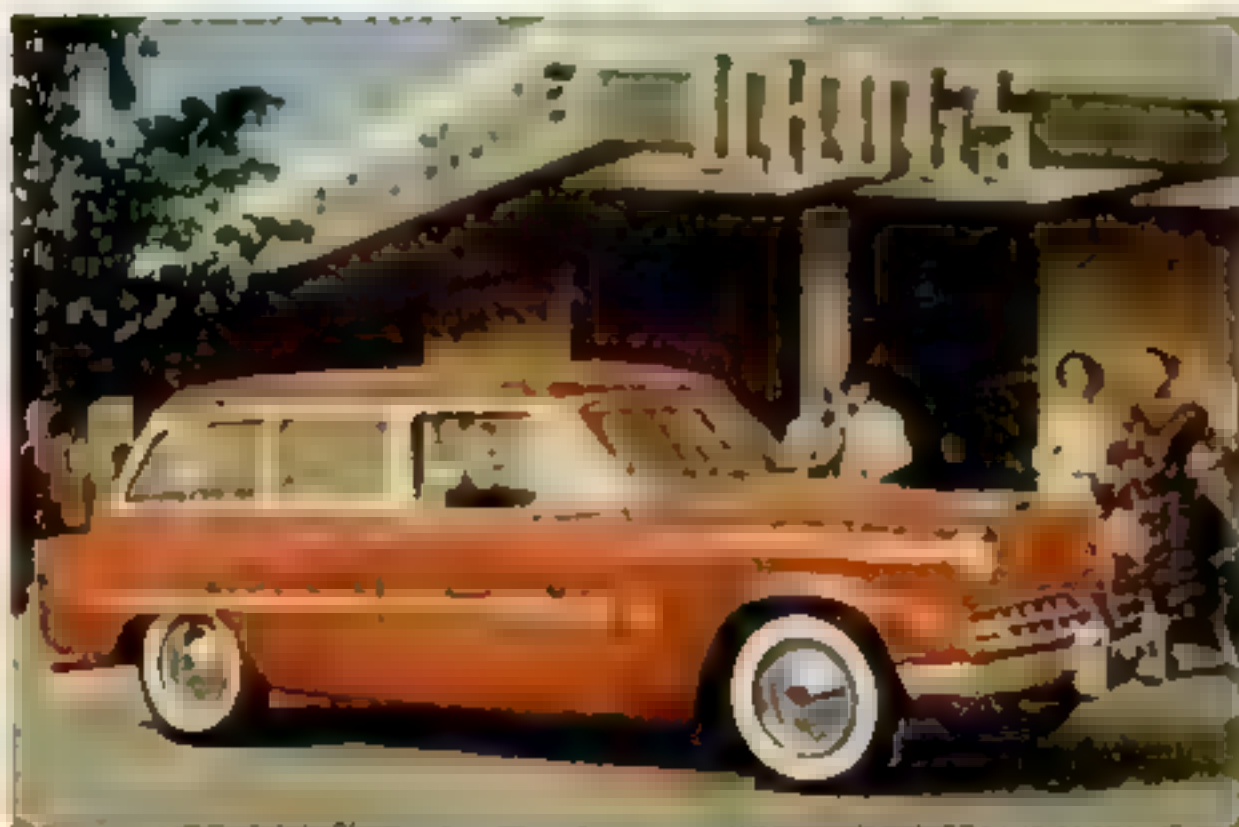
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It's the long and low-slung roomy Studebaker Conestoga which you can get either as a Champion in the lowest price field or as a Commander V-8. Like all 1954 Studebakers, the Conestogas are superbly color-styled inside as well as outside. Every model in the line offers Automatic Drive or Overdrive and marvelous Power Steering at extra cost.



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Prove to yourself that this 1954 Studebaker is America's only really modern car—superbly safe as well as saving—styled to insure you top resale value. Try out a Studebaker Commander V-8 or Champion right away.



No wonder Studebakers win in the Mobilgas Economy Runs! You go past the filling stations mile after mile when you drive a modern, designed Studebaker. The Studebaker Commander V-8 and Champion engines are so advanced they perform superbly on "regular" gas.



You get quality workmanship that assures low upkeep! Famous Studebaker craftsmen and technicians, with their painstaking craftsmanship, make every Studebaker outstanding in wear resistance. Studebaker body steel is heavy-gauge for safety, maintenance. Extra large extra-powerful brakes can take you with big visibility and road-clogging stability to make you additional secure.

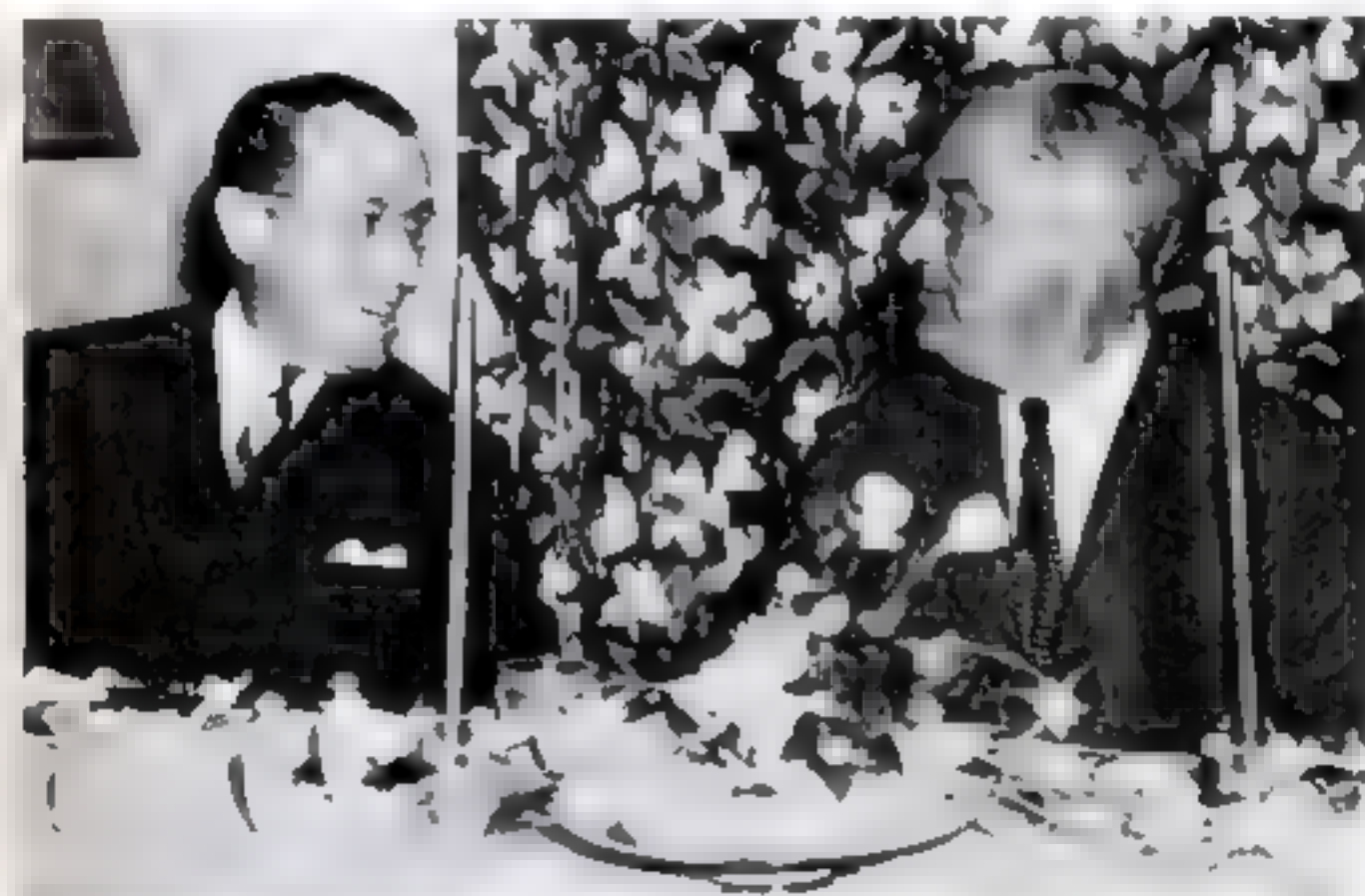
POLIO VACCINE CONTINUED

What can be done meantime is to look for "mutants," the genetic accidents by which new species and varieties of plants and animals are created. Sometimes viruses seem to change spontaneously in nature, bringing new diseases or new varieties of old ones. Accordingly, it is possible that completely nonparalytic strains of polio already exist and can be discovered. But viruses can also be forced to change in the laboratory, by introducing them into an "unnatural host"—some animal which does not get the disease under natural conditions. The virus, being a complete parasite, must either remain dormant or else adapt itself to the new circumstances. In so adapting, it may lose its virulence for its natural prey (man, in the case of polio) while retaining its ability to stimulate the production of antibodies. Harvesting such a virus from the "unnatural host," one obtains the material for a vaccine.

At the U.S. Public Health Service's virus laboratory at Montgomery, Ala. various strains of all three types are being passed through mice in hopes of modifying them or of finding a lucky mutant. At Lederle Laboratories, where a number of important animal diseases have yielded attenuated strains by being passed through chick embryos, this technique is being pursued with polio. So far only the Lansing type have been "egg-adapted." Perhaps the most promising work of all is being carried on at The Children's Hospital Research Foundation and University of Cincinnati by Dr. Albert Sabin, one of the earliest and most prolific of all the polio researchers. Using the Enders tissue-culture method, that universal godsend, Dr. Sabin tried the experiment of passing viruses quickly through test-tube cultures of monkey kidney tissue. He harvested the virus early in the process of reproduction to pick the particles which multiplied fastest, and transferred these into other tubes to start a new batch of virus, repeating the process through a long series. At a certain point in this operation, he seemed to have found a virus that would produce antibodies but would not produce paralytic polio. Moreover he was able to do this for all three types. The experiment is not complete, and even if the findings are confirmed beyond all doubt in laboratory animals, it will be many months before the studies will be extended to human subjects. But the possibility exists—and it is not a remote one—that here may lie another answer to the scourge.

Medical history, no less than political history, inevitably focuses on the few personalities who symbolize great achievements—the Pasteurs, the Cushings, the Flemings. Doubtless the conquest of polio also will be assigned in the shorthand of history to one or two symbolic names. But for now, while the victory is still in its final stages, humanity has the privilege of paying thanks to the many to whom the credit really belongs. A number of scientists have been mentioned here. There are others whose contributions have been only a little less noteworthy. And behind the outstanding names, of course, lie the hundreds and even thousands of others, buried in the enormous bibliography of polio research (since 1789 approximately 15,000 papers have been published), representing work done in many places in many nations.

But the American people can take a special pride in this coming victory, for the great modern discoveries have been made in this country. And all who have contributed even a penny or a dime to the National Foundation can take personal pride, for it is their cumulative offerings that have supported most of the significant work and made it possible. These millions, too, share the credit.



PRIME MOVERS in the fight against polio have been Basil O'Connor and the late President Roosevelt. F.D.R. founded the National Foundation in 1938; O'Connor, his former law partner, has headed it without pay since then.

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Luden's Menthol Medication goes where your cold goes—to help clear your nose, to help soothe your throat. You get FAST relief.



Baseball with a Rumba Beat



FANS WITH CRUDE CYMBAL AND CONCH-SHELL HORN WHOOP IT UP AT A HAVANA-ALMENDARES GAME



MEXICAN PLAYERS CHARGE ONTO THE FIELD WITH HATS FLAING AFTER TAUNTS BY RIVAL PITCHER

SIRENS AND FRACASES ENLIVEN LATIN GAMES

A vacationing baseball fan attending a game in the Caribbean might feel that he had been suddenly caught up in a Latin revolution. In Cuba, Puerto Rico, Panama and Venezuela the fans come to the ball park carrying agave rees, loghorns, bells and whistles and try to smother the opposition under a blanket of noise. In Cuba the police break up an average of three fist fights a game in the stands, and a bizarre sign (*opposite page*) adds to the confusion by lighting up for home runs over the left field fence. In Mexico, bats also serve as weapons (*above*). U.S. players, earning extra money, happily go along with the mayhem. As the Caribbean "World Series" opens in Puerto Rico this week, scenes such as the ones on these pages will be concentrated in a few wild high-pressure games.

A FAMILIAR SIGHT IN SAN JUAN IS FLUTTERING HANDKERCHIEFS WAVING GOODBY TO SHAKY PITCHER





AN OUTFIELDER STARES DISCONSOLATELY AT FLASHING SIGN IN HAVANA'S GRAN STADIUM SIGNIFYING THAT A HOME RUN HAS JUST BEEN SLAMMED OVER IT



BARBED-WIRE BARRICADE, to separate poorer seats from more expensive ones in Havana, fails to stop fans from crashing over guards watching game.



LOTTERY VENDOR lucratively hawks U.S. tickets in beleaguered Havana. Lotteries are legal in Cuba, but betting on baseball is prohibited. Fans do it anyway.

CANDLELIGHT HEX, used by fans of Caguas team in Ponce, R.I., is put on rival San Juan during regular season. Hexer, seen from left, is a favor of Caguas.

CONTINUED ON PAGE 147



DOUGLASS
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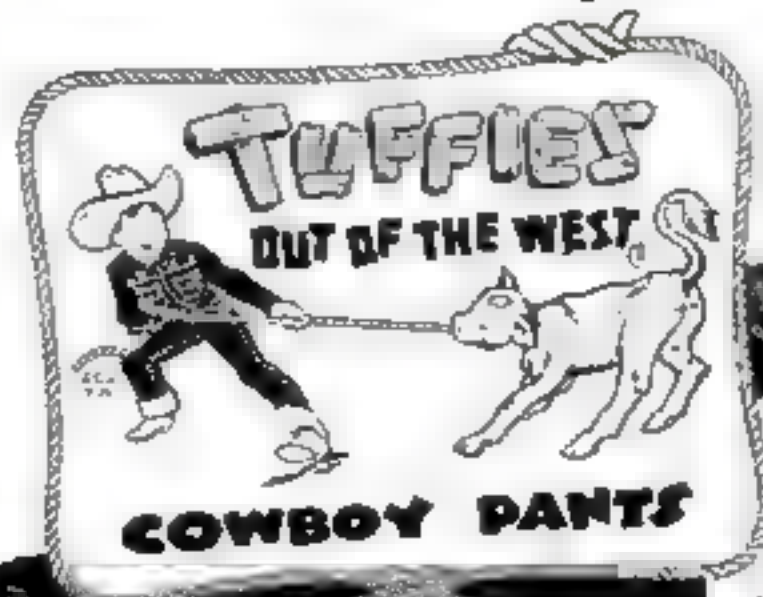
TEMPERS ALWAYS BOIL UP



MEMORABLE FREE-FOR-ALL in Veracruz-Monterrey game in 1946 broke out when Catcher Mickey Owen slammed the ball into runner's face (top). Frantic umpire tried to restore order but the fight spread all over field (bottom). Similar riot in Cuba this winter had 35 players fighting at once.

CONTINUED ON NEXT PAGE

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No matter which brand of cigarettes you smoke—long or short, filter tip or plain—take the sensible precaution of using a Dunhill Denicotea filter holder, for safer smoking.

It's like cutting down on smoking without giving up a single cigarette!



Three sizes.
\$2.50 and \$3.50. At stores everywhere.

Rumba-Beat Baseball CONTINUED



LATIN AMENITIES are enjoyed by U.S. players. Pig roast rewards Pitcher Ruben Gomez (right) of the New York Giants for winning Puerto Rican game.



DEEP-SEA FISHING is another relaxation in Puerto Rico. Harry Craft (in chair), manager of Kansas City and San Juan, brings in a 15-pound dolphin.

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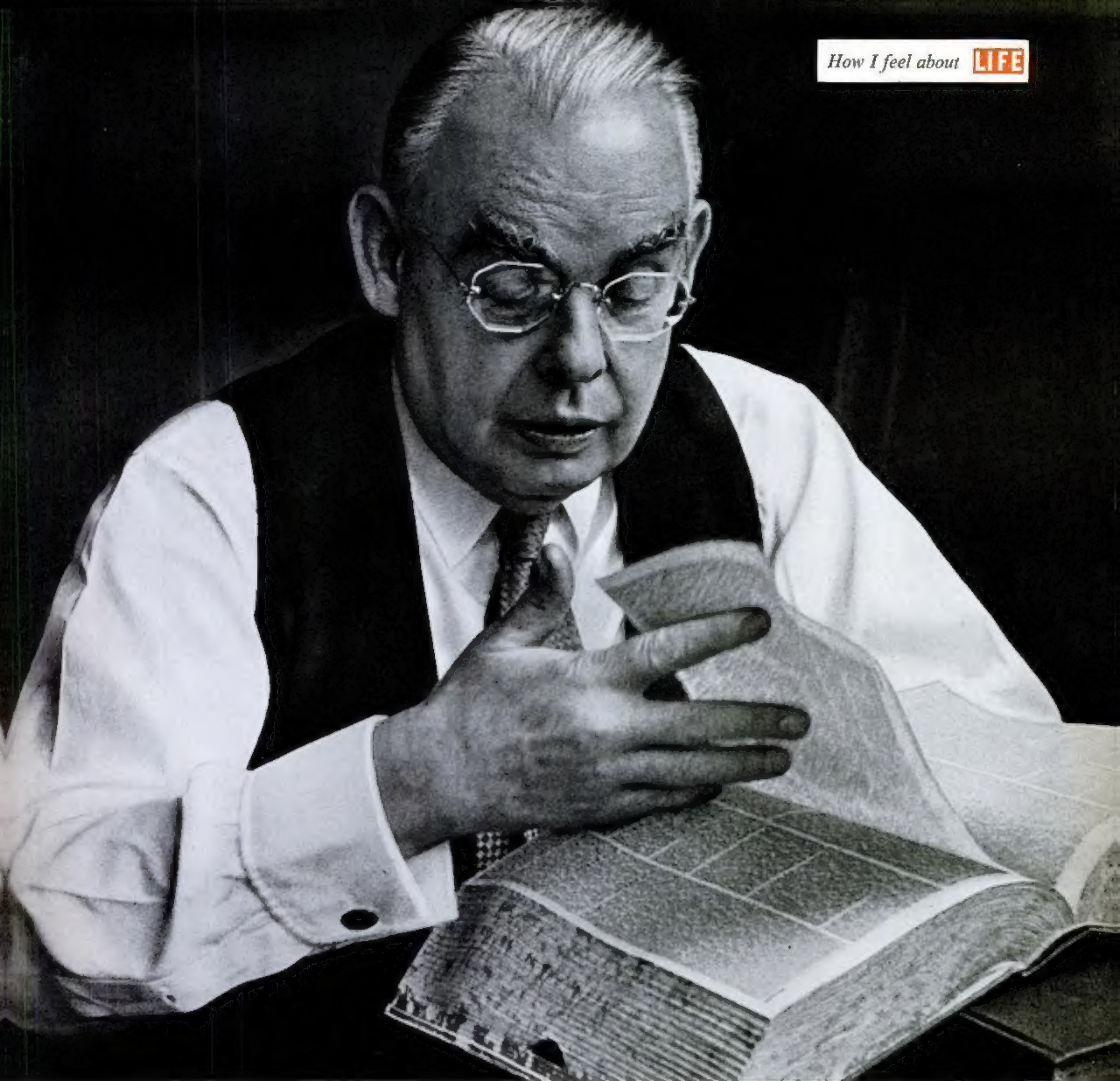


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The Doers and Knowers

Crises during World War II raised many questions like these: Who knows about helium? Who has had experience with railroads in Iran? Who knows a deep-sea diver who speaks Norwegian?—we need him to sink a German battleship hidden in a fiord.

Attempting to answer them led us to publish *Who Knows—and What*, the newest, and in some respects the most valuable of the companion volumes to *Who's Who in America*. This book lists 16,000 names keyed to 35,000 subjects, some of which were of such military value the government asked us to hold up publication until after the war.

Because I must keep up with the doers and knowers of our world, I buy not one but two copies of *LIFE* every week. One goes home, where I have a complete file of the magazine from the first issue back in 1936. The other is torn to pieces at the office and the fragments carefully sorted by names and subjects. Nearly every issue turns up something new and worthwhile.

LIFE is in a class by itself in presenting the people who know things and do things that are important to our lives. Its pictures and words are powerful tools of communication, giving us an insight into people and their character we could not get otherwise.

We read a piece by bank robber Willie Sutton that makes us really understand that "crime doesn't pay." We look into the Asiatic eyes of Stalin's successor, Georgi Malenkov, and know what we're up against internationally. Somehow, seeing *LIFE*'s pictures of Oppenheimer lounging on his desk while teaching advanced mathematics at Princeton humanizes atomic physics for us.

How do I sum up my feelings about *LIFE*? James M. Cain, the novelist, once described *Who's Who* this way: "At the same time a *Dun*, a *Bradstreet*, a *Social Register*, and a *Hall of Fame*, all merged into a grand consolidated National Glory Highway, and thus unique in the eyes of the American people."

To my mind, *LIFE* is all of this and more.

By **WHEELER SAMMONS**, editor, *Who's Who in America*



HOLD ME TIGHT, MAC

Swinging like pendulums in a routine practice jump nearly a thousand feet over Fort Benning, Ga. last month, two Army paratroopers suddenly collided in mid-air. Before their nylon parachutes could become dangerously entangled and send them plummeting to the earth, they managed

to clutch each other and drift down, face to face, to safety. Miraculously they escaped without a scratch—but not without a ride of 50 frightening seconds which provided the picture above, showing two grown men literally clinging together for dear life until they reached the ground.

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